

# STATISTICAL SUMMARIES OF STREAMFLOW RECORDS, OKLAHOMA THROUGH 1974

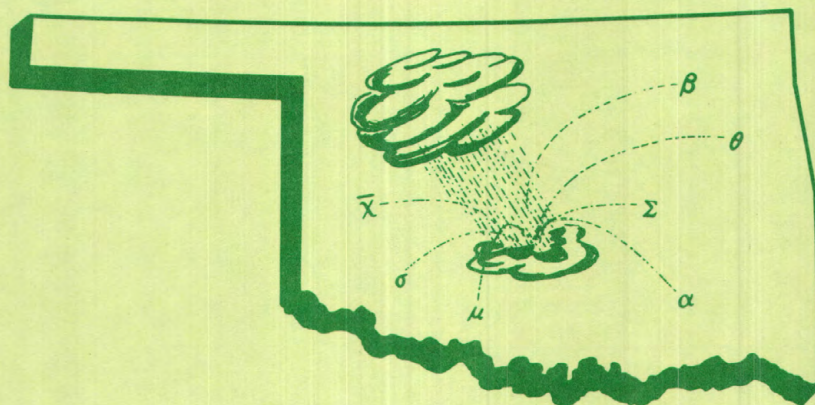
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UNITED STATES DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY  
WATER RESOURCES DIVISION

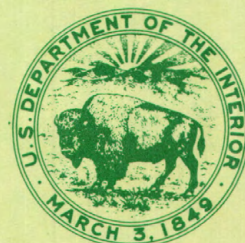
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Prepared in cooperation with the  
Oklahoma Water Resources Board

OPEN FILE REPORT









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STATISTICAL SUMMARIES OF STREAMFLOW  
RECORDS,  
OKLAHOMA THROUGH 1974

by Lionel D. Mize

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Compilations of Flow-Duration, Low-Flow,  
High-Flow, Monthly Duration Tables and  
Statistics of Annual Discharge Through 1974

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OPEN FILE REPORT

Prepared in cooperation with the  
OKLAHOMA WATER RESOURCES BOARD

Oklahoma City, Oklahoma  
October, 1975







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ABSTRACT

Tables summarizing daily streamflow data by year are presented for gaging stations in Oklahoma that have at least 5 years of either unregulated or regulated stream-gaging record through September 30, 1974. Separate tables are presented for unregulated and regulated periods of record. These summary tables include: (1) the number of days in each year that the daily discharge was between selected limits (duration tables), (2) the lowest mean daily discharge (frequency tables), (3) the highest mean daily discharge (frequency tables), (4) a monthly duration table for each station with 29 years or more of essentially unregulated record, and (5) statistics of annual discharge. These summaries provide useful information about the quantity, distribution, and variability of streamflow and provide basic data for developing relations for estimating streamflow at sites other than regular stream-gaging sites. This information is also useful in designing bridges, culverts, and other hydraulic structures as well as reservoirs for water supply, flood control, and low-flow augmentation.

## INTRODUCTION

The collection of streamflow records, by Federal agencies, on streams in Oklahoma began on a continuing basis in 1899. Streamflow records through 1960 were published by the U.S. Geological Survey in annual Water-Supply Papers. Beginning with 1961 records, Water-Supply Papers contain 5 years of record. Surface-water records for 1961 and subsequent years have been released by the Geological Survey in annual reports.

## PURPOSE AND SCOPE

The purpose of this report is to make available computer summaries of streamflow data for all gaging stations having five or more years of record as of September 30, 1974. These summaries include flow duration, low-flow, high-flow, monthly duration, and statistics of annual discharge. Flow-duration summaries serve as a basis for appraising and comparing the hydrologic and geologic characteristics of drainage basins. Low-flow summaries are useful in determining the adequacy of streamflow to maintain minimum flows for municipal and industrial water supplies, irrigation, waste dilution, conveyance, and wildlife conservation. High-flow summaries are valuable in the design of reservoirs, dams, flood-control works, and navigation systems.

Reports on surface-water supply containing records from 1899 to date for streamflow stations in this report are listed below. The data for any particular gaging station will, in general, be found in the report covering the years during which the station was maintained.



Numbers of Water-Supply Papers containing results of stream  
measurements in Lower Mississippi River basin, 1899-1965

Year	WSP	Year	WSP	Year	WSP	Year	WSP	Year	WSP
1899	37	1913	357	1927	647	1940	897	1953	1281
1900	60	1914	387	1928	667	1941	927	1954	1341
1901	66,75	1915	407	1929	687	1942	957	1955	1391
1902	84	1916	437	1930	702	1943	977	1956	1441
1903	99	1917	457	1931	717	1944	1007	1957	1511
1904	131	1918	477	1932	732	1945	1037	1958	1561
1905	173	1919-20	507	1933	747	1946	1057	1959	1631
1906	209	1921	527	1934	762	1947	1087	1960	1711
1907-8	247	1922	547	1935	787	1948	1117	1961-	1920,
1909	267	1923	567	1936	807	1949	1147	65	1921
1910	287	1924	587	1937	827	1950	1177		
1911	307	1925	607	1938	857	1951	1211		
1912	327	1926	627	1939	877	1952	1241		

## ACKNOWLEDGMENTS

The Geological Survey and other organizations have had cooperative agreements for the systematic collection of surface-water records in Oklahoma since 1935. Organizations that have assisted in collecting data with the Survey are: Oklahoma Water Resources Board; Oklahoma City Water Department; Corps of Engineers, U.S. Army; Soil Conservation Service, U.S. Department of Agriculture; Bureau of Reclamation, U.S. Department of the Interior; Grand River Dam Authority; Central Oklahoma Master Conservancy District; Fort Cobb Reservoir Master Conservancy District; Lugert-Altus Irrigation District; Agricultural Research Service, U.S. Department of Agriculture; Cities of Ada, Altus, Lawton, Shawnee, and Tulsa.



# UNITS OF MEASUREMENT

The analysis and compilations in this report were made with English units of measurement. English units only are shown in tables where, because of space limitations, the dual system of English and metric units would not be practicable. To convert English units to metric units, the following conversion factors should be used:

<u>English</u>	<u>Multiply by</u>	<u>Metric</u>
acre-ft (acre-feet)	$1.233 \times 10^{-3}$	hm <sup>3</sup> (cubic hectometres)
ft <sup>3</sup> /s (cubic feet per second) <sup>1/</sup>	$2.832 \times 10^{-3}$	m <sup>3</sup> /s (cubic metres per second)
mi (miles)	1.609	km (kilometres)
mi <sup>2</sup> (square miles)	2.590	km <sup>2</sup> (square kilometres)

<sup>1/</sup> Abbreviations for this unit of measure is shown as cfs in the computer printout tables.

## PRESENTATION OF DATA

Gaging stations are listed in downstream order used by the Geological Survey, and each station has been assigned a number (fig. 1). A brief description of each gaging station is given at the head of each flow-duration table. The description shows the location, drainage area, period of record, average discharge, and remarks. The location gives the latitude and longitude, and nearby reference points. The drainage area is that most recently determined. The average discharge is the average daily flow for the number of years indicated. Information about regulation and diversions are shown in the remarks paragraph.

Separate tables of duration, low-flow, and high-flow data are presented for unregulated and regulated periods of record. Monthly duration tables are presented for stations with at least 29 years of unregulated flow. Statistics of annual discharge are presented for stations with at least 10 years unregulated record. Discharge at a gaging station was considered regulated when 65 percent of that station's drainage area was affected by impoundment structures.

## Flow Duration

The flow-duration tabulation shows the number of days in each water year in each of 25 to 30 class intervals of flow and the total flow, in "cfs-days," for each year. All partial and complete years of record are included. Each daily discharge is counted in the class when discharge equals or exceeds the lower limit of the class and does not equal or exceed the lower limit of the next higher class. A class number is shown at the head of each column of the duration table.

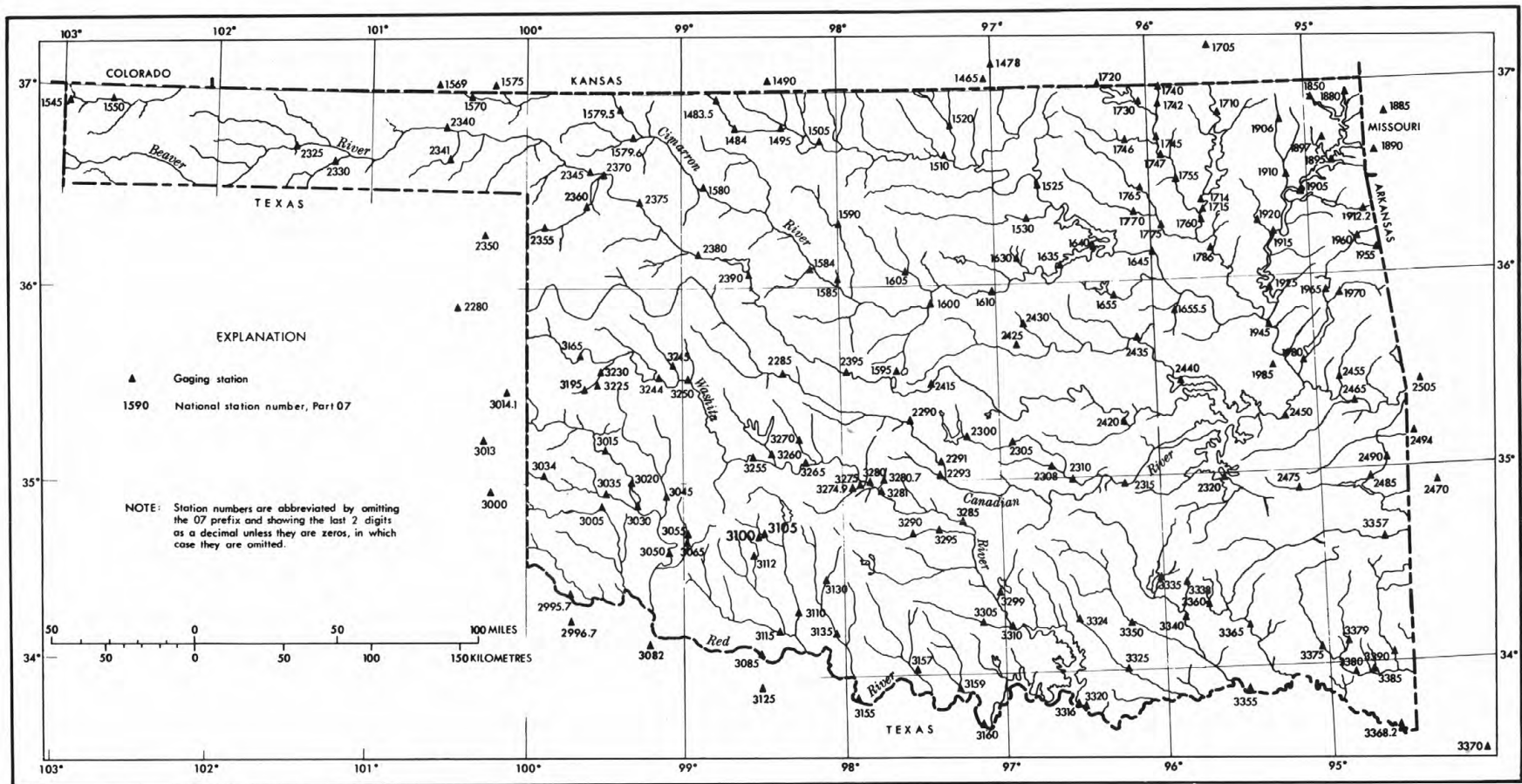


Figure 1.-- Map showing location of gaging stations.



A summary table shows the lowest discharge in each class, the total number of days for the period of record in each class, the cumulative number of days in each class beginning with the highest interval, and the percent of time that the discharge in each class was exceeded.

The summary tabulation provides data to construct a flow-duration curve, which is a cumulative frequency curve showing the percent of time that discharges were exceeded in a given period. Figure 2 illustrates a flow-duration curve for 071520.00 Chikaskia River near Blackwell, Okla. The plotted points are obtained directly from the summary table; second column, "CFS", is the ordinate and fifth column, "PERCT," is the abscissa. The points can be plotted on any type of coordinate paper; however, the log-normal probability paper is recommended. A smooth curve is drawn to fit the plotted points.

Figure 2 shows, for example, that the daily discharge for Chikaskia River near Blackwell was greater than  $13.3 \text{ ft}^3/\text{s}$  ( $0.38 \text{ m}^3/\text{s}$ ) for 90 percent of the time, greater than  $115 \text{ ft}^3/\text{s}$  ( $3.26 \text{ m}^3/\text{s}$ ) for 50 percent of the time, and greater than  $682 \text{ ft}^3/\text{s}$  ( $19.3 \text{ m}^3/\text{s}$ ) for 10 percent of the time.

#### Low Flow

A tabulation for each gaging station is shown which provides the lowest mean discharge for each climatic year for 10 selected periods of time ranging from 1 to 365 days. The climatic year beginning April 1 is used because this date splits the usual high-water period of a year and allows the low-water season to be complete in a single year. From these data individual low-flow frequency curves can be drawn for each of the consecutive periods 1, 3, 7, 14, 30, 60, 90, 120, 183, and 365 days.

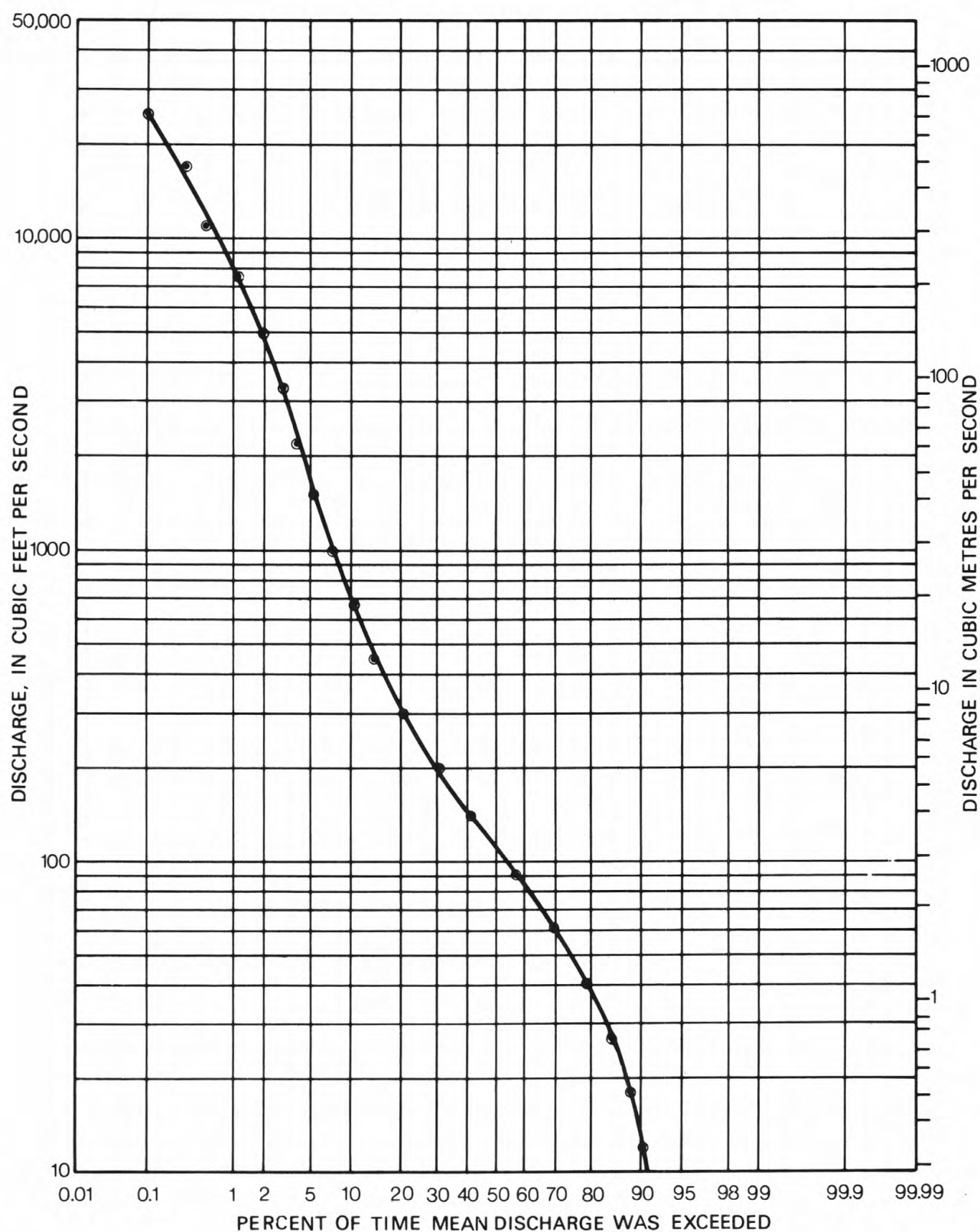


Figure 2. -- Duration curve of mean daily flow, Chikaskia River near Blackwell, Oklahoma; 1937-1974.

A sample arrangement was prepared for Chikaskia River near Blackwell, Okla. (table 1). This example is based on a graphical method (Riggs, 1968) of fitting the frequency curve. Other methods, including electronic computer techniques, of computing plotting positions and fitting the curve also may be used.

To prepare a low-flow frequency curve by the graphical method the discharges for a selected time period are ranked beginning with the lowest as number one. These ranked discharges are plotted as the ordinate. The abscissa is the recurrence interval which is computed by the formula  $(N+1)/M$ , where  $N$  is the number of years of record (**38 years in the example**) and  $M$  is the order number determined by the ranking. For example, from table 1 the 1-day lowest mean discharge of  $0.50 \text{ ft}^3/\text{s}$  ( $0.01 \text{ m}^3/\text{s}$ ) is ranked third.

A smooth curve drawn through the plotted points represents the low-flow flow frequency curve for the selected consecutive-day period. In figure 3 the periods of 1, 90, 183, and 365 consecutive days at Chikaskia River near Blackwell were selected for illustration. Discharges for selected recurrence intervals can be determined from the curves in figure 3. For example, the lowest 90 consecutive-day average flow will be less than  $21 \text{ ft}^3/\text{s}$  ( $0.59 \text{ m}^3/\text{s}$ ) on the average of once every 5 years.

#### High Flow

High-flow frequency curves are prepared by the graphical method in a similar manner as described for low-flow curves. Discharges in each column of table 2 are ranked according to magnitude beginning with the highest as number one. The discharge is plotted as the ordinate and the recurrence interval as the abscissa. A smooth curve is drawn through



Table 1.--Sample arrangement of plotting positions for low-flow frequency curves for Chikaskia River near Blackwell, Oklahoma, 1937-74.

Rank no.	Recurrence interval (years)	1-day	90-day	183-day	365-day
		Mean discharge (ft <sup>3</sup> /s)	Mean discharge (ft <sup>3</sup> /s)	Mean discharge (ft <sup>3</sup> /s)	Mean discharge (ft <sup>3</sup> /s)
1	39	0.00	0.68	1.36	17.0
2	19.5	0.00	2.60	7.11	44.0
3	13.0	0.50	4.45	7.57	45.7
4	9.75	0.50	5.48	23.0	92.7
5	7.80	0.50	13.8	31.9	99.8
6	6.50	0.50	15.6	43.0	104
7	5.57	0.70	18.1	46.1	120
8	4.88	0.75	18.3	47.2	160
9	4.33	0.80	20.2	47.7	166
10	3.90	1.00	27.0	47.9	183
11	3.55	1.00	31.1	62.7	184
12	3.25	1.50	36.4	71.3	190
13	3.00	1.60	45.0	78.9	204
14	2.79	3.00	55.9	87.6	229
15	2.60	3.40	57.8	92.3	254
16	2.44	3.50	67.5	103	316
17	2.29	3.80	73.7	109	334
18	2.17	4.10	75.7	116	354
19	2.05	5.30	77.1	122	398
20	1.95	5.90	77.6	132	454
21	1.86	6.70	93.0	135	463
22	1.77	8.60	94.1	140	471
23	1.70	15.0	102	153	477
24	1.62	18.0	103	176	496
25	1.56	20.0	108	216	534
26	1.50	23.0	112	248	566
27	1.44	25.0	122	251	661
28	1.39	27.0	131	262	666
29	1.34	27.0	132	268	687
30	1.30	32.0	139	271	691
31	1.26	35.0	155	310	701
32	1.22	37.0	176	321	888
33	1.18	38.0	197	358	955
34	1.15	44.0	213	490	1090
35	1.11	46.0	274	791	1120
36	1.08	58.0	306	804	1190
37	1.05	62.0	328	819	1300
38	1.03	143	372	1060	1510

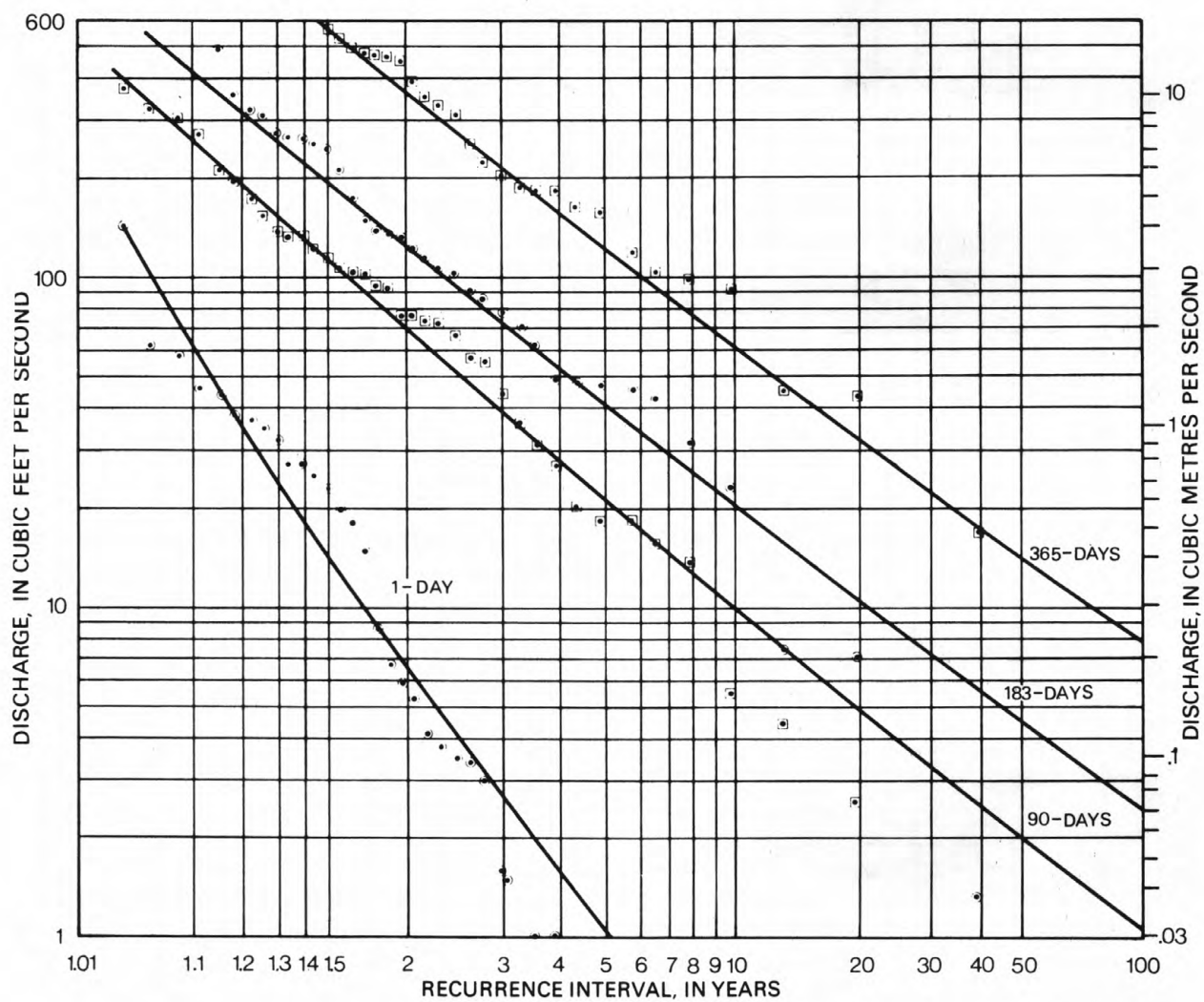


Figure 3. -- Low-flow frequency curves for Chikaskia River near Blackwell, Oklahoma, 1937-1974.

Table 2.--Sample arrangement of plotting positions for high-flow frequency curves for Chikaskia River near Blackwell, Oklahoma, 1937-74.

Rank no.	Recurrence interval (years)	1-day	90-day	183-day	365-day
		Mean discharge (ft <sup>3</sup> /s)	Mean discharge (ft <sup>3</sup> /s)	Mean discharge (ft <sup>3</sup> /s)	Mean discharge (ft <sup>3</sup> /s)
1	39	69500	5140	2770	1450
2	19.5	55300	3610	1940	1170
3	13.0	52700	2820	1770	1130
4	9.75	48000	2260	1630	979
5	7.80	45100	2190	1360	966
6	6.50	43200	2160	1360	962
7	5.57	38800	2080	1350	908
8	4.88	34400	2040	1260	884
9	4.33	33900	2010	1240	728
10	3.90	30700	2010	1180	694
11	3.55	28200	1940	1170	690
12	3.25	27700	1640	1080	687
13	3.00	27100	1630	1020	661
14	2.79	25400	1380	969	656
15	2.60	22400	1380	819	535
16	2.44	22200	1310	803	468
17	2.29	21000	1270	789	439
18	2.17	20100	1250	773	420
19	2.05	17300	1150	676	419
20	1.95	13800	1060	598	375
21	1.86	12200	988	598	337
22	1.77	11800	829	573	307
23	1.70	10600	735	460	282
24	1.62	9740	621	423	266
25	1.56	8620	601	374	254
26	1.50	8260	570	354	228
27	1.44	7910	533	310	199
28	1.39	7780	529	301	189
29	1.34	7230	422	296	184
30	1.30	6610	416	289	168
31	1.26	5910	370	255	161
32	1.22	5540	318	229	159
33	1.18	5390	316	219	158
34	1.15	4750	260	206	151
35	1.11	4450	222	173	109
36	1.08	3180	218	135	97.6
37	1.05	2760	159	134	76.6
38	1.03	1080	151	111	71.0

14 the plotted points. For illustration, curves in figure 4 were drawn for the highest mean discharge for periods of 1, 90, 183, and 365 consecutive days for Chikaskia River near Blackwell. For high-flow frequency curves, the discharge is that which will be exceeded on the average of once in the number of years indicated by the recurrence interval.

### Monthly Duration

Monthly duration tables are presented for stations with 29 years or more of essentially unregulated record and can be used to construct monthly duration hydrographs or monthly duration curves. Each table includes a list of the class limits in  $\text{ft}^3/\text{s}$ , the percent of days in the entire period having discharge greater than each class limit, and the percent of the days in each month having discharge greater than each class limit.

Figure 5 illustrates a monthly duration hydrograph for the station Chikaskia River near Blackwell. The plotted points are obtained from the summary table; first column, "CLASS LIMIT," as the ordinate and the third through fourteenth columns, percent chance of exceedence by month as the abscissa. Hydrographs can be constructed for selected percent chances. For example, figure 5 shows that during the month of January flows of  $283 \text{ ft}^3/\text{s}$  ( $8.01 \text{ m}^3/\text{s}$ ),  $103 \text{ ft}^3/\text{s}$  ( $2.92 \text{ m}^3/\text{s}$ ), and  $12.3 \text{ ft}^3/\text{s}$  ( $0.35 \text{ m}^3/\text{s}$ ) at Chikaskia River near Blackwell will be exceeded approximately 10, 50, and 95 percent of the time, respectively.

Hydrographs in figure 5 can also be used to select the highest (June) and lowest (August) months and compare with the annual (total) for the period of computation. Figure 6 shows a set of duration curves to illustrate one method of comparison.



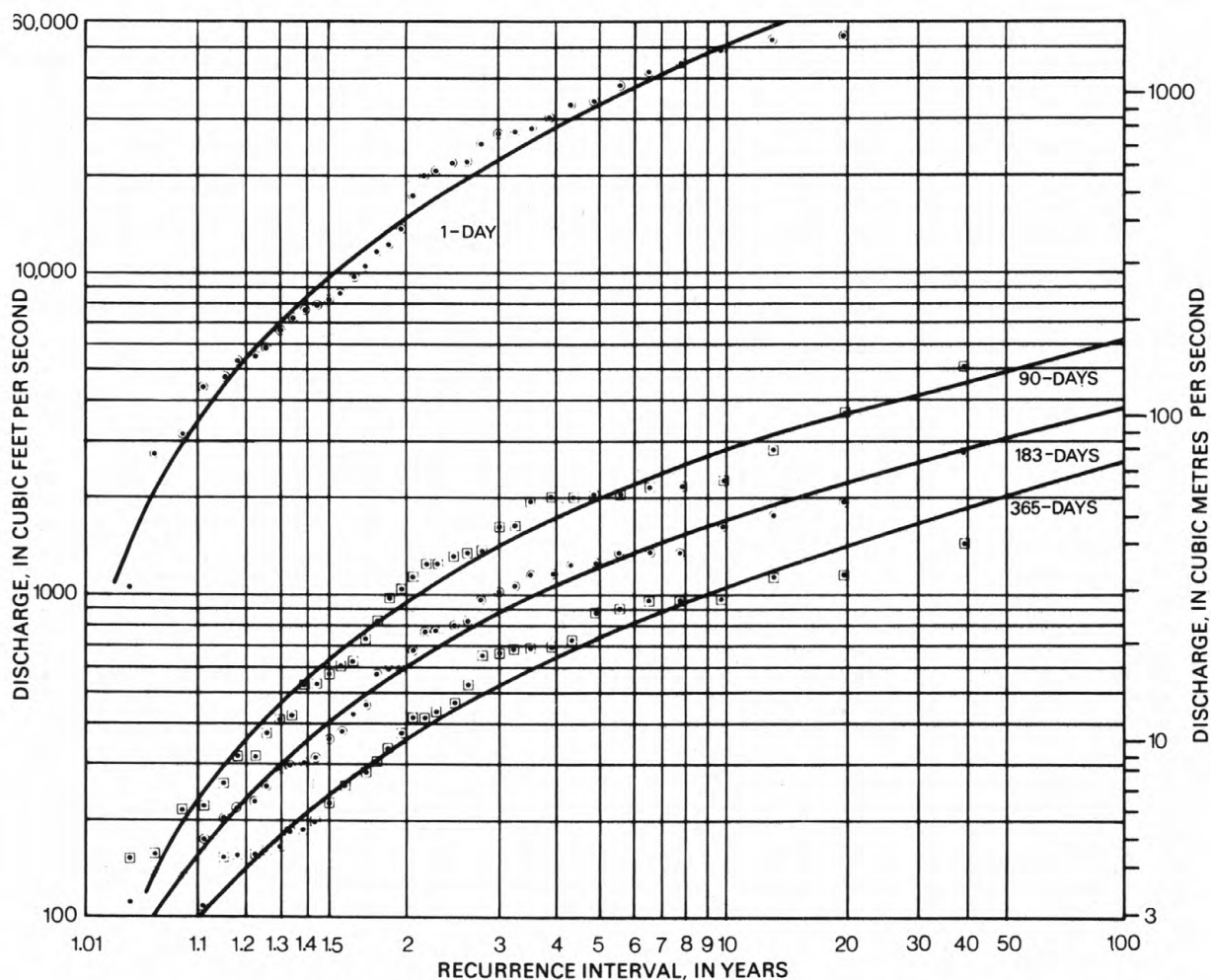


Figure 4. -- High-flow frequency curves for Chikaskia River near Blackwell, Oklahoma 1937-1974.

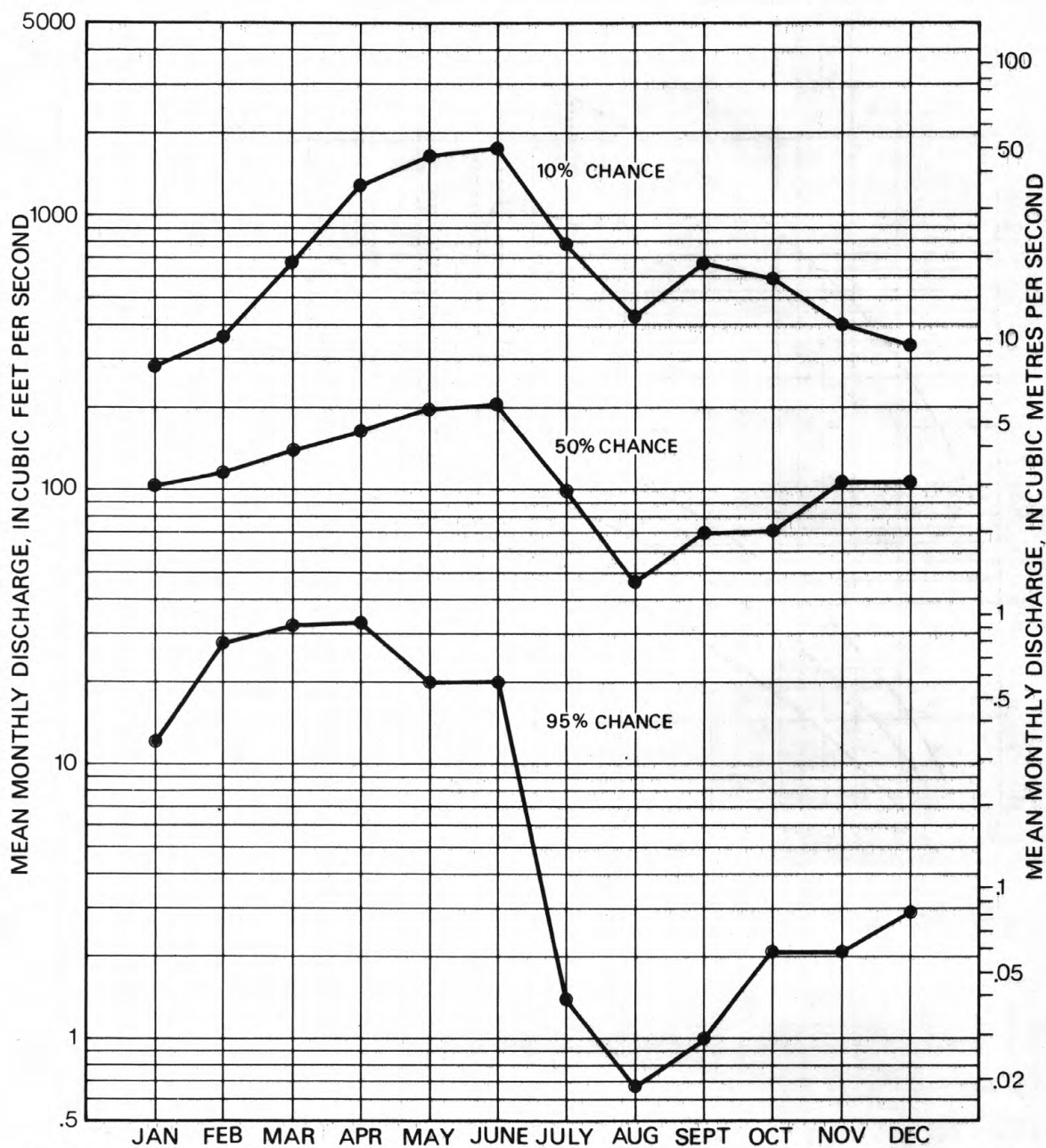


Figure 5.-- Chance exceedence of mean monthly flow, Chikaskia River near Blackwell Oklahoma, 1936-1974.

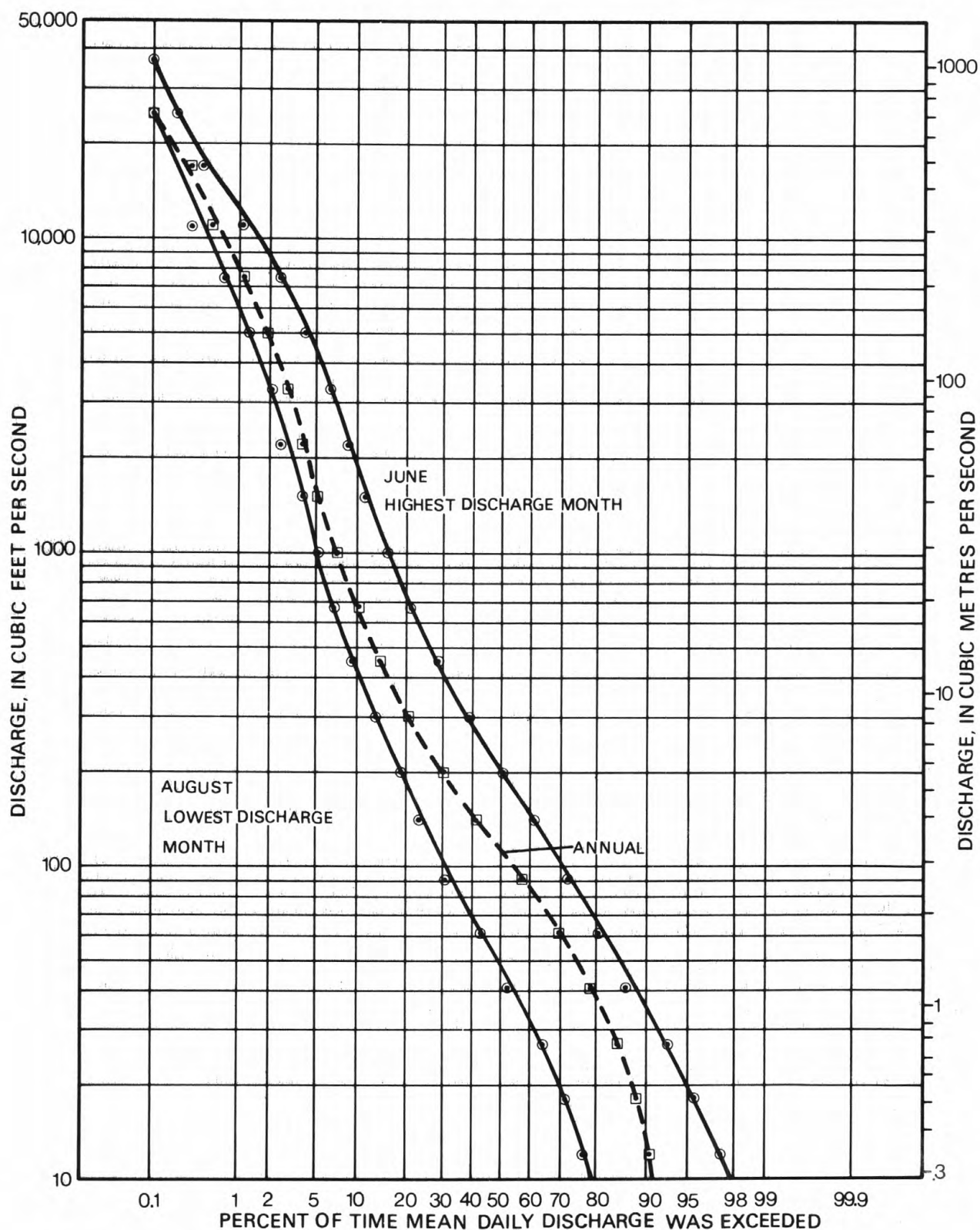


Figure 6.-- Duration curves: highest and lowest monthly discharge compared to the annual discharge for Chikaskia River near Blackwell, Oklahoma, 1936-1974.

### Statistics of Annual Discharge

Tables of statistics of annual discharge are presented only for stations with 10 or more years of essentially unregulated record. The years of unregulated record used in the series are noted in the table heading. The computed statistics (mean, standard deviation, coefficient of variation, skew coefficient, and first order serial correlation coefficient) are listed for stations with unregulated record. A more comprehensive discussion and meaning of the following statistical terms is given in Dixon and Massey (1969, p. 22-33, 95-106, 193-216) or V. T. Chow (1964, p. 8-1 to 8-42).

Mean.--The values of mean in the second column of the table are measures of the central value of the yearly discharges.

Standard deviation and coefficient of variation.--The values in the third and fourth columns of the table are measures of the scatter or dispersion of yearly discharges about the mean. If the yearly values are normally distributed or plot nearly as a straight line when arrayed on probability paper, one standard deviation has numerical significance as the amount which encompasses two-thirds of the values about the mean.

Skew coefficient.--Skewness is one of the measures of the distortion of the data from normal distribution. If normally distributed, values of the skew coefficient are zero. If the mean is larger than the median, skew is positive and the arrayed annual discharges define a relation on probability paper that is concave upward.



First order serial correlation coefficient.--These values show the degree of relationship of one yearly discharge to that of the following year. A value of zero indicates no persistence and  $\pm 1.0$  indicates complete dependence of the discharge of one year with that of the next year.

#### REFERENCES

- Riggs, H. C., 1968, Frequency curves: U.S. Geol. Survey Techniques of Water-Resources Inv., book 4, chap. A2, 15 p.
- Chow, V. T., 1964, Frequency analysis, in Chow, V. T., Handbook of applied hydrology: New York, McGraw-Hill Book Co., p. 8-1 to 8-42.
- Dixon, W. J., and Massey, F. J., 1969, Introduction to statistical analysis, New York, McGraw-Hill Book Co., 638 p.



TABLE 3.--STATISTICAL SUMMARIES OF GAGING STATIONS.



# ARKANSAS RIVER BASIN

23

## 07146500 ARKANSAS RIVER AT ARKANSAS CITY, KANS.

LOCATION.--Lat 36°03'23", long 97°03'32", in NE 1/4 NE 1/4 NE 1/4 sec.35, T.34 S., R.3 E., Cowley County, near left bank at downstream side of bridge on U.S. Highway 166, 0.1 mi (0.2 km) downstream from St. Louis - San Francisco Railway Co. bridge, 0.5 mi (0.8 km) west of Arkansas City, 5.4 mi (8.7 km) upstream from Walnut River and at mile 701.4 (1,128.6 km).

DRAINAGE AREA.--43,713 mi<sup>2</sup> (113,200 km<sup>2</sup>), of which 7,607 mi<sup>2</sup> (19,700 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD.--September 1902 to September 1906, September 1921 to September 1974. Statistical summaries for this station are divided into unregulated and regulated periods.

AVERAGE DISCHARGE.--24 years (1903-05, 1922-42), 1,352 ft<sup>3</sup>/s (38.3 m<sup>3</sup>/s); 31 years (1944-74), 2,221 ft<sup>3</sup>/s (62.9 m<sup>3</sup>/s).

REMARKS.--Flow moderately regulated by John Martin Reservoir (Colo.) since 1943 and Cheney Reservoir (Kans.) since 1964. Diversions above station for irrigation.

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

### ARKANSAS RIVER NEAR ARKANSAS CITY, KANSAS

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS	
1903									4	2	6	4	16	40	49	35	28	32	28	28	32	15	7	8	13	4	3	8	2	1						432740.0
1904													1	13	24	41	76	26	22	41	35	13	11	9	17	7	4	3	2	3	3	2			781470.0	
1905											2	2	4	2	1	6	4	61	32	54	43	30	29	32	19	30	7	7							735623.0	
1922	4	28	12	12	18	10	6	13	13	10	5	8	2	9	27	14	12	16	32	27	21	15	10	14	7	8	4	3	2	2	1				550037.2	
1923				2	11	3	32	26	16	8	7	9	7	29	14	14	23	17	7	15	42	22	13	10	14	11	2		2	3	3	1	2		812291.0	
1924													8	12	12	11	22	19	19	35	66	63	43	29	14	4	3	3	1	1	1				628741.0	
1925												4	19	44	55	63	64	43	40	20	9	3	1												151366.0	
1926										5	2	11	9	17	30	59	66	97	35	11	14	3	3	1	1		1								184239.0	
1927																10107	39	32	54	18	14	19	20	22	9	7	4	5	2	2	1			941365.0		
1928													8	6	9	21	84	86	58	35	14	10	6	13	6	5	2	3							620352.0	
1929													1	8	15	24	28	31	67	82	30	17	14	12	10	13	9	2	2						698609.0	
1930											9	7	7	16	71	48	56	75	35	17	11	5	2	1	2	3									343257.0	
1931											1	2	13	15	20	19	9	20	37	72	75	56	18	3	3		2								285652.0	
1932												2	24	46	13	17	26	82	85	33	9	6	10	9	2	1	1								251626.0	
1933											3	4	17	21	57	46	60	53	22	23	12	14	8	5	2	6	3	3	4	2					276827.0	
1934												42	9	9	14	14	53	126	69	17	5	6	1												133461.0	
1935													12	12	61	103	45	23	18	10	14	5	6	5	11	12	9	4	4	7	4				648621.0	
1936											1	7	6	41	36	68	85	55	24	13	13	9	4	2	1	1									181648.0	
1937																68	81	71	50	25	17	14	12	9	8	2	2	6							364972.0	
1938													1	9	69	81	48	38	40	17	9	9	14	10	4	8	5	1	2						460595.0	
1939													1	14	35	71	133	42	20	17	10	7	4	3	5		1	2							302440.0	
1940													7	58	63	42	57	42	20	19	15	11	9	9	8	2	3	1							272361.0	
1941																16	37	15	63	96	43	38	19	10	10	2	6	3	3	3	1				444843.0	
1942																				5	19	87	80	58	24	22	17	10	20	9	11	1	1	1	1340307.0	

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	8766	100.0	9	42.00	40	8585	97.9	18	600.0	909	4214	48.1	27	8600	96	206	2.3
1	4.00	4	8766	100.0	10	57.00	77	8545	97.5	19	810.0	802	3305	37.7	28	12000	38	110	1.2
2	5.40	28	8762	100.0	11	76.00	81	8468	96.6	20	1100.0	773	2503	28.6	29	15000	39	72	.8
3	7.20	12	8734	99.6	12	100.00	177	8347	95.7	21	1500.0	480	1730	19.7	30	21000	16	33	.3
4	9.70	14	8722	99.5	13	140.00	395	8210	93.7	22	2000.0	322	1250	14.3	31	28000	10	17	.1
5	13.00	29	8708	99.3	14	190.00	523	7815	89.2	23	2600.0	243	928	10.6	32	37000	5	7	.0
6	17.00	13	8679	99.0	15	250.00	854	7292	83.2	24	3500.0	193	685	7.8	33	50000	2	2	.0
7	23.00	38	8666	98.9	16	330.00	1062	6438	73.4	25	4800.0	177	492	5.6	34	68000			
8	32.00	43	8628	98.4	17	450.00	1162	5376	61.3	26	6400.0	109	315	3.6					



## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## ARKANSAS RIVER NEAR ARKANSAS CITY, KANSAS

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1904	125.00 13	132.00 13	134.00 12	148.00 13	171.00 10	272.00 10	352.00 11	363.00 10	467.00 12	1240.00 13
1905	238.00 18	261.00 18	295.00 18	346.00 19	500.00 20	519.00 19	585.00 19	654.00 18	876.00 18	2430.00 21
1923	12.00 1	13.00 1	14.90 1	25.60 1	31.70 1	38.20 1	61.50 1	170.00 1	369.00 6	1470.00 15
1924	13.00 2	14.00 2	27.60 2	54.00 2	114.00 4	760.00 21	1270.00 22	1370.00 21	2020.00 22	3050.00 22
1925	90.00 10	113.00 11	134.00 13	141.00 11	171.00 11	234.00 8	246.00 7	260.00 6	276.00 4	870.00 8
1926	81.00 8	89.30 9	101.00 9	116.00 9	138.00 7	262.00 9	360.00 12	372.00 11	397.00 8	467.00 2
1927	45.00 3	47.70 3	55.10 3	71.50 4	127.00 6	173.00 5	236.00 6	336.00 8	579.00 15	1010.00 12
1928	520.00 22	520.00 22	567.00 22	619.00 22	647.00 21	695.00 20	729.00 20	769.00 20	957.00 19	2330.00 20
1929	189.00 16	204.00 15	222.00 15	223.00 15	243.00 15	303.00 14	387.00 15	623.00 16	994.00 20	1800.00 18
1930	308.00 20	330.00 20	343.00 20	366.00 20	398.00 19	443.00 17	571.00 18	670.00 19	718.00 16	1710.00 16
1931	108.00 12	113.00 12	117.00 10	134.00 10	193.00 14	339.00 16	552.00 17	639.00 17	739.00 17	971.00 11
1932	52.00 5	60.00 6	69.40 5	78.10 5	95.30 3	139.00 3	150.00 3	172.00 3	397.00 9	694.00 6
1933	87.00 9	87.00 8	91.60 8	95.30 7	125.00 5	158.00 4	165.00 4	173.00 4	213.00 1	504.00 3
1934	45.00 4	50.00 4	71.40 6	86.60 6	163.00 9	188.00 7	379.00 14	384.00 12	411.00 10	831.00 7
1935	57.00 6	57.70 5	59.90 4	61.30 3	64.10 2	76.20 2	132.00 2	170.00 2	253.00 3	337.00 1
1936	107.00 11	108.00 10	123.00 11	156.00 14	177.00 12	291.00 13	330.00 9	345.00 9	391.00 7	1800.00 17
1937	74.00 7	77.00 7	84.90 7	101.00 8	183.00 13	323.00 15	340.00 10	420.00 14	417.00 11	601.00 4
1938	180.00 15	229.00 16	255.00 17	258.00 17	268.00 17	288.00 12	311.00 8	316.00 7	364.00 5	879.00 9
1939	290.00 19	308.00 19	318.00 19	320.00 18	345.00 18	453.00 18	462.00 16	486.00 15	562.00 14	1370.00 14
1940	136.00 14	136.00 14	138.00 14	144.00 12	150.00 8	179.00 6	189.00 5	184.00 5	231.00 2	673.00 5
1941	226.00 17	229.00 17	234.00 16	237.00 16	248.00 16	275.00 11	362.00 13	400.00 13	498.00 13	890.00 10
1942	498.00 21	500.00 21	501.00 21	518.00 21	755.00 22	899.00 22	1050.00 21	1470.00 22	1840.00 21	1960.00 19

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## ARKANSAS RIVER NEAR ARKANSAS CITY, KANSAS

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1903	15500.0 12	14200.0 12	11200.0 10	8960.0 8	6480.0 7	4730.0 9	3400.0 10	2780.0 11	2100.0 11	1190.0 13
1904	40300.0 4	37600.0 2	30800.0 2	19400.0 2	12100.0 3	9340.0 3	6740.0 3	5380.0 3	3770.0 3	2140.0 4
1905	9680.0 17	9460.0 16	8500.0 14	7260.0 11	5860.0 9	5370.0 6	4460.0 6	3840.0 6	3110.0 6	2020.0 5
1922	28600.0 5	24600.0 5	15300.0 6	10400.0 6	5790.0 10	4010.0 11	3710.0 9	3640.0 7	2910.0 7	1510.0 10
1923	67600.0 1	54300.0 1	39400.0 1	26400.0 1	16200.0 1	9370.0 1	6820.0 2	5850.0 2	4070.0 2	2230.0 3
1924	22400.0 7	16800.0 8	11100.0 11	6920.0 12	4430.0 14	3550.0 13	2930.0 12	2580.0 12	2100.0 12	1720.0 8
1925	2450.0 23	1670.0 23	1240.0 23	949.0 23	803.0 23	675.0 23	591.0 23	570.0 23	509.0 23	415.0 23
1926	7510.0 19	5040.0 20	2890.0 22	1740.0 22	1280.0 22	787.0 22	676.0 22	636.0 22	592.0 22	505.0 21
1927	43900.0 2	33700.0 3	19100.0 5	11500.0 5	9410.0 5	5860.0 5	4740.0 5	3920.0 5	3710.0 4	2580.0 2
1928	19500.0 8	17900.0 7	12700.0 7	10300.0 7	7610.0 6	4920.0 7	3800.0 8	3360.0 9	2570.0 9	1690.0 9
1929	19500.0 9	15000.0 9	9440.0 12	6630.0 14	5990.0 8	4900.0 8	4190.0 7	3640.0 8	2790.0 8	1910.0 6
1930	10400.0 16	9840.0 15	7720.0 16	4830.0 16	3150.0 17	2320.0 16	1710.0 17	1440.0 17	1220.0 17	940.0 15
1931	5520.0 21	3990.0 22	3610.0 20	2260.0 21	1580.0 21	1410.0 20	1320.0 19	1140.0 19	1030.0 19	783.0 17
1932	6480.0 20	5340.0 19	3650.0 19	2890.0 19	2320.0 19	1480.0 19	1170.0 20	1030.0 20	909.0 20	688.0 20
1933	13900.0 14	11300.0 14	9320.0 13	7790.0 10	5080.0 13	2730.0 14	1900.0 15	1580.0 15	1250.0 15	758.0 18
1934	1690.0 24	1450.0 24	1120.0 24	813.0 24	614.0 24	603.0 24	547.0 24	502.0 24	470.0 24	366.0 24
1935	25900.0 6	23700.0 6	21900.0 4	16200.0 4	12200.0 2	8670.0 4	6120.0 4	4690.0 4	3200.0 5	1780.0 7
1936	4940.0 22	4130.0 21	3140.0 21	2270.0 20	1610.0 20	1130.0 21	845.0 21	769.0 21	621.0 21	496.0 22
1937	11100.0 15	9090.0 17	6500.0 17	4780.0 17	3530.0 15	2630.0 15	2100.0 14	1890.0 14	1400.0 14	1000.0 14
1938	18400.0 10	14700.0 11	11700.0 8	8090.0 9	5640.0 12	4420.0 10	3260.0 11	2860.0 10	2160.0 10	1260.0 11
1939	14400.0 13	13000.0 13	8170.0 15	4880.0 15	3290.0 16	1960.0 18	1670.0 18	1350.0 18	1140.0 18	829.0 16
1940	8860.0 18	7290.0 18	4400.0 18	3210.0 18	2490.0 18	2060.0 17	1790.0 16	1450.0 16	1230.0 16	744.0 19
1941	16900.0 11	14900.0 10	11300.0 9	6840.0 13	5770.0 11	3700.0 12	2820.0 13	2410.0 13	1920.0 13	1220.0 12
1942	42500.0 3	32200.0 4	24500.0 3	17200.0 3	11200.0 4	9340.0 2	8430.0 1	6780.0 1	5300.0 1	3670.0 1

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

## ARKANSAS RIVER NEAR ARKANSAS CITY, KANSAS

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS	
1944																																				1191660.0
1945																																				1008335.0
1946																																				365881.0
1947																																				928235.0
1948																																				1127574.0
1949																																				1448909.0
1950																																				1003648.0
1951																																				2128130.0
1952																																				697798.0
1953																																				237281.0
1954																																				168981.0
1955																																				236062.0
1956																																				229194.0
1957																																				1058586.0
1958																																				1168828.0
1959																																				616009.0
1960																																				1181430.0
1961																																				878960.0
1962																																				1023375.0
1963																																				426171.0
1964																																				292214.0
1965																																				1155011.0
1966																																				427980.0
1967																																				486379.0
1968																																				335974.0
1969																																				893339.0
1970																																				572256.0
1971																																				392521.0
1972																																				379978.0
1973																																				1437610.0
1974																																				1642007.0

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

## ARKANSAS RIVER NEAR ARKANSAS CITY, KANSAS

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	11323	100.0	9	160.00	118	10946	96.7	18	1300.0	1134	4584	40.5	27	11000	118	391	3.4
1	24.00	28	11323	100.0	10	200.00	254	10828	95.6	19	1700.0	886	3450	30.5	28	14000	100	273	2.4
2	30.00	22	11295	99.8	11	260.00	332	10574	93.4	20	2200.0	548	2564	22.6	29	18000	64	173	1.5
3	39.00	19	11273	99.6	12	320.00	556	10242	90.5	21	2700.0	531	2016	17.8	30	23000	52	109	.9
4	49.00	32	11254	99.4	13	410.00	791	9686	85.5	22	3500.0	314	1485	13.1	31	29000	33	57	.5
5	62.00	29	11222	99.1	14	520.00	981	8895	78.6	23	4400.0	271	1171	10.3	32	37000	17	24	.2
6	78.00	69	11193	98.9	15	660.00	1067	7914	69.9	24	5600.0	209	900	7.9	33	47000	5	7	.0
7	99.00	86	11124	98.2	16	840.00	1411	6847	60.5	25	7100.0	175	691	6.1	34	60000	2	2	.0
8	130.00	92	11038	97.5	17	1100.00	852	5436	48.0	26	9000.0	125	516	4.6					

## STATION NUMBER 07146500

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## ARKANSAS RIVER NEAR ARKANSAS CITY, KANSAS

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1944	342.00 19	349.00 17	361.00 16	374.00 16	394.00 14	461.00 11	546.00 10	521.00 9	579.00 8	1110.00 9
1945	819.00 30	835.00 30	885.00 30	951.00 28	1090.00 28	1430.00 29	1710.00 29	1940.00 30	2080.00 27	3860.00 28
1946	342.00 20	345.00 16	367.00 17	374.00 17	459.00 17	795.00 18	1040.00 23	1080.00 21	1630.00 23	2360.00 19
1947	74.00 3	82.00 3	86.90 3	94.00 3	130.00 4	165.00 3	263.00 4	350.00 5	504.00 6	966.00 6
1948	249.00 13	254.00 13	270.00 12	271.00 12	299.00 10	349.00 9	377.00 7	461.00 7	510.00 7	2510.00 20
1949	487.00 25	514.00 25	535.00 23	612.00 22	746.00 23	872.00 21	1070.00 24	1120.00 23	2270.00 28	4050.00 29
1950	527.00 26	616.00 27	763.00 28	842.00 27	876.00 25	956.00 23	1030.00 22	1070.00 19	1130.00 17	2900.00 23
1951	575.00 28	581.00 26	613.00 25	678.00 24	716.00 21	773.00 17	1100.00 25	1330.00 26	1670.00 25	3020.00 24
1952	1130.00 31	1240.00 31	1330.00 31	1500.00 31	1690.00 31	1860.00 31	1860.00 30	2030.00 31	2350.00 29	6160.00 31
1953	202.00 9	202.00 9	205.00 8	216.00 8	233.00 7	277.00 7	332.00 6	393.00 6	476.00 5	1080.00 8
1954	140.00 14	143.00 6	156.00 6	163.00 5	168.00 5	218.00 5	281.00 5	349.00 4	397.00 4	537.00 4
1955	24.00 1	25.30 1	27.00 1	37.40 2	58.20 2	61.60 2	69.80 2	83.60 2	121.00 2	352.00 2
1956	91.00 4	92.30 4	95.30 4	115.00 4	122.00 3	190.00 4	406.00 8	484.00 8	976.00 14	1030.00 7
1957	27.00 2	27.30 2	27.40 2	27.90 1	28.90 1	40.50 1	54.00 1	72.20 1	94.20 1	212.00 1
1958	645.00 29	658.00 29	693.00 26	723.00 25	878.00 26	957.00 24	978.00 18	1110.00 22	1350.00 20	3660.00 27
1959	570.00 27	627.00 28	804.00 29	985.00 30	1100.00 29	1150.00 27	1170.00 26	1220.00 23	1420.00 21	3050.00 25
1960	337.00 18	355.00 18	386.00 18	406.00 18	484.00 18	912.00 22	1330.00 27	1610.00 28	1960.00 26	2740.00 21
1961	400.00 21	463.00 24	529.00 22	733.00 26	849.00 24	974.00 25	1000.00 19	1070.00 20	1460.00 22	2230.00 18
1962	400.00 22	450.00 22	736.00 27	970.00 29	1190.00 30	1550.00 30	1900.00 31	1880.00 29	2390.00 30	2840.00 22
1963	300.00 16	357.00 19	460.00 21	506.00 21	733.00 22	856.00 19	938.00 17	995.00 17	1130.00 18	2170.00 17
1964	250.00 14	283.00 14	346.00 15	350.00 14	435.00 15	557.00 14	575.00 13	573.00 11	699.00 11	957.00 5
1965	134.00 5	137.00 5	148.00 5	181.00 6	250.00 8	477.00 12	689.00 15	693.00 14	832.00 13	1260.00 10
1966	311.00 17	454.00 23	564.00 24	667.00 23	956.00 27	1250.00 28	1340.00 28	1420.00 27	1640.00 24	3160.00 26
1967	190.00 7	194.00 7	202.00 7	212.00 7	222.00 6	246.00 6	258.00 3	284.00 3	349.00 3	536.00 3
1968	222.00 11	223.00 10	240.00 11	266.00 11	332.00 11	427.00 10	564.00 12	576.00 12	750.00 12	1530.00 14
1969	291.00 15	313.00 15	324.00 14	340.00 13	440.00 16	742.00 16	785.00 16	831.00 15	1060.00 15	1480.00 13
1970	410.00 23	419.00 20	457.00 20	490.00 20	563.00 19	871.00 20	1010.00 21	1060.00 18	1120.00 16	2070.00 15
1971	200.00 8	202.00 8	208.00 9	224.00 9	266.00 9	337.00 8	493.00 9	524.00 10	681.00 10	1460.00 12
1972	233.00 12	245.00 12	281.00 13	351.00 15	387.00 13	586.00 15	645.00 14	851.00 16	1240.00 19	1260.00 11
1973	212.00 10	224.00 11	227.00 10	248.00 10	362.00 12	490.00 13	555.00 11	621.00 13	652.00 9	2170.00 16
1974	436.00 24	441.00 21	450.00 19	469.00 19	656.00 20	1030.00 26	1000.00 20	1170.00 24	3990.00 31	5100.00 30

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## ARKANSAS RIVER NEAR ARKANSAS CITY, KANSAS

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1944	69600.0 1	56400.0 1	40400.0 2	28700.0 1	19700.0 3	12100.0 4	9380.0 4	7630.0 3	5810.0 5	3260.0 5
1945	41900.0 7	33100.0 7	22700.0 8	14500.0 9	9770.0 11	6200.0 12	4860.0 12	4060.0 14	3600.0 13	2760.0 12
1946	27200.0 14	15300.0 19	8420.0 20	4900.0 21	3120.0 25	2040.0 26	1620.0 25	1590.0 24	1480.0 23	1000.0 25
1947	33000.0 11	30200.0 11	21300.0 9	12200.0 12	7400.0 13	6490.0 11	6170.0 11	5290.0 10	4000.0 11	2540.0 14
1948	31500.0 12	29100.0 12	23700.0 7	20600.0 5	16800.0 5	12000.0 5	8700.0 6	6780.0 7	5390.0 7	3080.0 9
1949	19700.0 20	17800.0 18	16700.0 13	14400.0 10	12300.0 9	9790.0 8	7520.0 8	6800.0 6	6540.0 2	3970.0 3
1950	34500.0 9	30400.0 10	25000.0 6	18800.0 7	13700.0 6	10500.0 7	7740.0 7	6230.0 8	4360.0 10	2750.0 13
1951	60400.0 2	45800.0 3	35800.0 3	26100.0 3	20800.0 1	18600.0 1	15600.0 1	12800.0 1	9960.0 1	5830.0 1
1952	8330.0 24	7450.0 24	6270.0 23	4570.0 22	3570.0 21	3150.0 18	2940.0 19	2670.0 19	2420.0 17	1910.0 17
1953	4280.0 30	2630.0 31	1890.0 31	1290.0 31	1180.0 31	1030.0 30	977.0 30	923.0 30	850.0 30	650.0 28
1954	5840.0 29	4280.0 29	2980.0 29	1870.0 30	1310.0 30	1010.0 31	836.0 31	766.0 31	674.0 31	463.0 31
1955	9900.0 23	7790.0 23	4830.0 26	3770.0 25	3480.0 22	2360.0 22	1700.0 24	1380.0 26	1050.0 27	647.0 29
1956	20600.0 17	19200.0 16	12200.0 17	6600.0 19	3670.0 20	2090.0 24	1540.0 26	1270.0 27	1010.0 28	626.0 30
1957	59600.0 3	45600.0 4	31400.0 4	20400.0 6	13500.0 7	12900.0 3	9440.0 3	7580.0 4	5600.0 6	2900.0 10
1958	20100.0 18	19300.0 15	15600.0 15	11400.0 13	10400.0 10	7480.0 10	6360.0 10	5290.0 11	4800.0 8	3200.0 7
1959	10600.0 22	9130.0 22	7390.0 21	5290.0 20	3750.0 19	2540.0 20	2740.0 20	2400.0 20	2100.0 20	1690.0 18
1960	34200.0 10	30500.0 9	19700.0 10	13500.0 11	7950.0 12	5690.0 13	4700.0 13	4290.0 12	3740.0 12	3230.0 6
1961	39700.0 8	31800.0 8	19500.0 11	11000.0 14	6510.0 16	4310.0 17	4040.0 16	3800.0 16	3320.0 14	2410.0 16
1962	25500.0 16	22200.0 13	16400.0 14	10300.0 15	5800.0 17	5330.0 14	4480.0 14	4240.0 13	3210.0 15	2800.0 11
1963	7160.0 27	6870.0 25	5990.0 25	4150.0 23	2590.0 26	1680.0 27	1510.0 27	1510.0 25	1220.0 25	1170.0 21
1964	6070.0 28	4310.0 28	3340.0 28	2140.0 29	1480.0 29	1120.0 29	1020.0 29	934.0 29	902.0 29	798.0 27
1965	51200.0 5	35800.0 6	19200.0 12	15500.0 8	13300.0 8	8800.0 9	6460.0 9	6130.0 9	4690.0 9	3160.0 8
1966	3970.0 31	3160.0 30	2950.0 30	2370.0 28	2260.0 28	2050.0 25	1840.0 23	1690.0 21	1620.0 21	1170.0 22
1967	16800.0 21	13400.0 20	11200.0 18	9440.0 16	7380.0 14	5140.0 16	3940.0 17	3290.0 17	2310.0 18	1330.0 20
1968	20100.0 19	13100.0 21	6710.0 22	3590.0 27	2510.0 27	1640.0 28	1420.0 28	1270.0 28	1090.0 26	918.0 26
1969	30000.0 13	19900.0 14	13200.0 16	8220.0 17	6850.0 15	5240.0 15	4380.0 15	4010.0 15	3140.0 16	2450.0 15
1970	26600.0 15	18200.0 17	10600.0 19	7510.0 18	4490.0 18	3070.0 19	3390.0 18	2810.0 18	2230.0 19	1570.0 19
1971	7920.0 26	6520.0 27	4780.0 27	3840.0 24	3160.0 24	2320.0 23	1860.0 22	1670.0 22	1500.0 22	1080.0 23
1972	8010.0 25	6740.0 26	6020.0 24	3740.0 26	3260.0 23	2430.0 21	1940.0 21	1650.0 23	1280.0 24	1040.0 24
1973	45900.0 6	37600.0 5	31100.0 5	24700.0 4	20300.0 2	14300.0 2	10600.0 2	8770.0 2	6240.0 3	3940.0 4
1974	52700.0 4	48400.0 2	40800.0 1	27900.0 2	19400.0 4	11600.0 6	9030.0 5	7500.0 5	5880.0 4	4500.0 2

## 27

LOCATION.--Lat 37°13'27", long 96°59'40", in SW 1/4 SW 1/4 NE 1/4 sec.33, T.32 S., R.4 E., Cowley County, at downstream side of bridge on U.S. Highway 77, 1 mi (1.6 km) south of Winfield, 1 mi (1.6 km) upstream from Black Crook Creek, and at mile 24.8 (39.9 km).

REMARKS.--Some regulation at low flow by City Water Works Dam above station.

## WALNUT RIVER AT WINFIELD, KANSAS

[illegible]

CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT
0	0.00	270	18993	100.0	9	3.80	162	18467	97.2	18	150.0	2163	9564	50.4	27	6100	225	569	2.9
1	0.10	9	18723	98.6	10	26.57	262	18305	96.8	19	230.0	1755	7401	39.0	28	9200	156	344	1.8
2	0.20	1	18714	98.5	11	8.60	42	18043	95.8	20	310.0	1125	5646	29.7	29	14000	105	186	0.9
3	0.30	10	18713	98.5	12	13.00	674	17617	92.8	21	520.0	1125	4001	22.1	30	21000	61	81	0.4
4	0.50	14	18703	98.5	13	19.00	1110	16943	89.2	22	780.0	869	2676	15.1	31	32000	17	22	0.1
5	0.70	35	18689	98.4	14	29.00	1346	15833	83.4	23	1200.0	538	2007	10.6	32	48000	4	5	0.0
6	1.10	18	18654	98.2	15	44.00	1441	14487	76.3	24	1800.0	405	1469	7.7	33	72000	1	1	0.0
7	1.70	71	18636	98.1	16	67.00	1523	13046	68.7	25	2700.0	296	1064	5.6	34				
8	2.50	98	18565	97.7	17	100.00	1959	11523	60.7	26	4100.0	199	768	4.0					

## STATION NUMBER 07147800

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## WALNUT RIVER AT WINFIELD, KANSAS

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1923	13.00 25	22.70 30	26.40 32	26.90 28	35.40 28	49.80 26	70.90 24	96.00 26	169.00 27	810.00 32
1924	7.00 19	22.70 31	40.90 36	51.40 37	64.60 36	91.10 36	166.00 38	182.00 36	263.00 33	1060.00 38
1925	6.00 17	9.00 19	21.60 27	27.30 29	42.60 31	69.60 34	67.30 23	83.20 22	113.00 21	313.00 17
1926	0.50 6	0.50 5	0.50 5	0.79 5	2.10 5	10.50 8	16.80 9	38.00 12	56.20 13	104.00 5
1927	1.00 7	2.00 8	2.66 7	3.21 7	12.30 12	35.60 19	56.20 19	81.30 21	366.00 38	731.00 26
1928	106.00 50	127.00 50	135.00 50	145.00 48	176.00 47	186.00 43	200.00 42	212.00 39	415.00 42	1480.00 45
1929	0.00 1	1.00 6	5.66 11	10.80 15	39.00 29	52.50 28	73.50 27	213.00 40	1250.00 51	1560.00 47
1930	3.00 12	12.30 22	23.70 30	33.10 33	48.10 34	53.70 29	61.80 21	64.50 20	81.20 16	740.00 27
1931	2.00 9	8.33 18	10.60 18	18.90 22	25.80 23	29.70 15	83.10 29	104.00 30	136.00 23	277.00 16
1932	2.00 10	2.00 9	4.57 8	14.60 18	24.30 21	49.60 24	95.00 33	106.00 31	396.00 40	484.00 20
1933	15.00 27	17.00 27	17.60 24	19.70 24	21.70 18	24.20 13	29.10 13	29.20 11	30.00 8	271.00 15
1934	3.00 13	6.00 14	10.10 17	11.60 16	13.20 13	16.60 12	17.40 10	16.80 5	19.10 4	137.00 6
1935	1.00 8	1.00 7	1.14 6	1.21 6	2.10 6	3.97 5	16.60 8	60.40 17	113.00 22	200.00 9
1936	23.00 32	24.30 34	28.90 33	29.60 30	31.80 26	36.00 20	64.00 22	98.70 29	249.00 32	804.00 30
1937	0.00 2	0.00 1	0.00 1	0.00 1	0.00 1	0.12 3	2.00 3	18.20 7	49.70 12	263.00 14
1938	18.00 30	18.30 28	19.60 26	21.10 25	25.30 22	34.40 17	39.90 15	38.20 13	61.70 14	531.00 21
1939	23.00 33	23.30 32	23.60 29	24.60 27	27.20 24	38.80 22	39.20 14	39.70 14	40.90 10	617.00 24
1940	4.00 14	4.33 11	4.57 9	5.00 8	5.80 7	6.93 6	7.84 4	9.68 3	13.70 3	146.00 7
1941	5.00 15	5.67 12	6.57 12	7.29 10	10.70 9	29.30 14	73.10 26	63.20 18	91.00 18	380.00 18
1942	35.00 36	36.70 37	42.30 37	55.10 38	86.40 39	278.00 48	349.00 47	457.00 48	832.00 46	1020.00 34
1943	102.00 49	109.00 49	130.00 49	193.00 50	276.00 51	345.00 50	549.00 50	895.00 51	990.00 48	1360.00 42
1944	35.00 37	35.70 36	36.70 35	40.70 34	47.30 33	49.80 25	57.00 20	63.40 19	68.90 15	1030.00 35
1945	51.00 39	52.00 39	55.10 39	59.60 39	130.00 43	202.00 46	349.00 48	345.00 45	501.00 43	1750.00 50
1946	39.00 38	39.70 38	44.60 38	46.10 35	58.30 35	193.00 45	281.00 45	346.00 46	1080.00 49	1560.00 48
1947	15.00 28	15.00 25	15.30 21	16.60 20	20.20 17	35.10 18	51.80 18	51.30 16	85.00 17	239.00 13
1948	7.00 20	8.00 16	9.14 16	10.00 13	11.60 10	13.30 9	15.60 7	22.10 9	29.90 7	809.00 31
1949	10.00 22	10.30 20	12.40 20	16.60 21	22.30 19	58.30 31	93.80 30	89.00 24	414.00 41	1290.00 40
1950	60.00 42	63.70 42	69.00 42	81.00 42	90.10 40	103.00 37	125.00 35	118.00 32	150.00 26	616.00 23
1951	58.00 40	60.00 40	63.30 40	69.90 40	75.20 38	88.20 35	94.20 32	97.00 28	176.00 28	858.00 33
1952	204.00 52	204.00 51	208.00 51	210.00 51	217.00 50	259.00 47	289.00 46	446.00 47	669.00 44	2450.00 51
1953	11.00 23	11.30 21	11.70 19	12.50 17	14.00 14	16.00 11	20.80 12	28.40 10	32.60 9	232.00 12
1954	2.40 11	3.50 10	4.93 10	5.18 9	6.84 8	9.84 7	13.40 6	17.40 6	22.90 6	194.00 8
1955	0.00 3	0.00 2	0.00 2	0.00 2	0.00 2	0.00 1	0.06 1	2.38 2	5.39 2	18.70 1
1956	0.00 4	0.00 3	0.00 3	0.00 3	0.00 3	1.59 4	9.93 5	11.40 4	97.80 19	98.90 4
1957	0.00 5	0.00 4	0.00 4	0.00 4	0.00 4	0.00 2	0.32 2	1.23 1	2.75 1	20.00 2
1958	16.00 29	16.30 26	18.70 25	49.10 36	71.30 37	126.00 39	167.00 39	185.00 37	194.00 29	1280.00 39
1959	80.00 45	81.00 44	82.60 43	90.50 43	94.40 42	110.00 38	121.00 34	128.00 33	140.00 25	595.00 22
1960	101.00 48	104.00 48	113.00 48	138.00 46	206.00 48	330.00 49	466.00 49	569.00 49	1160.00 50	1420.00 43
1961	75.00 43	79.70 43	90.70 44	104.00 44	142.00 45	167.00 40	229.00 44	279.00 43	366.00 39	752.00 28
1962	197.00 51	205.00 52	240.00 52	292.00 52	374.00 52	712.00 52	1220.00 52	1140.00 52	2100.00 52	2460.00 52
1963	59.00 41	61.70 41	65.10 41	73.60 41	92.40 41	179.00 42	199.00 41	213.00 41	284.00 34	479.00 19
1964	21.00 31	21.70 29	22.90 28	24.50 26	34.50 27	42.20 23	43.30 16	43.60 15	45.00 11	202.00 10
1965	14.00 26	14.30 23	15.60 22	16.50 19	22.40 20	51.80 27	94.10 31	85.60 23	237.00 31	790.00 29
1966	80.00 46	98.70 47	101.00 46	109.00 45	141.00 44	175.00 41	189.00 40	197.00 38	220.00 30	1570.00 49
1967	7.80 21	8.20 17	8.67 15	9.31 11	12.20 11	15.50 10	18.00 11	20.00 8	21.50 5	95.80 3
1968	5.70 16	5.77 13	7.50 13	10.00 12	19.30 16	38.40 21	134.00 37	145.00 34	295.00 36	621.00 25
1969	79.00 44	94.00 46	97.30 45	145.00 47	209.00 49	604.00 51	615.00 51	706.00 50	913.00 47	1050.00 37
1970	90.00 47	92.30 45	103.00 47	153.00 49	160.00 46	187.00 44	214.00 43	295.00 44	322.00 37	1540.00 46
1971	28.00 35	30.00 35	30.90 34	32.30 31	39.70 30	60.40 33	130.00 36	221.00 42	284.00 35	1030.00 36
1972	13.00 24	14.30 24	16.40 23	19.00 23	28.00 25	30.90 16	47.90 17	90.80 25	139.00 24	230.00 11
1973	6.20 18	6.63 15	7.59 14	10.40 14	18.40 15	57.00 30	71.40 25	96.70 27	111.00 20	1300.00 41
1974	24.00 34	24.00 33	26.10 31	33.00 32	43.00 32	59.50 32	78.60 28	151.00 35	746.00 45	1480.00 44



## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## IAHUT RIVER AT WINFIELD, KANSAS

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1923	48700.0 5	42200.0 3	24900.0 3	15000.0 3	8980.0 4	4880.0 5	3350.0 7	2550.0 11	1710.0 17	951.0 18
1924	9170.0 40	7350.0 40	4950.0 35	2950.0 35	1660.0 34	1380.0 32	1060.0 33	837.0 33	672.0 33	462.0 34
1925	4060.0 49	1870.0 50	939.0 49	522.0 50	375.0 50	289.0 49	252.0 49	225.0 49	193.0 48	129.0 48
1926	15800.0 28	9290.0 32	5560.0 32	3000.0 33	1590.0 37	843.0 40	574.0 41	454.0 41	366.0 41	216.0 41
1927	32900.0 11	27600.0 11	16300.0 14	11500.0 10	7240.0 7	4070.0 13	3210.0 11	2550.0 12	2500.0 7	1780.0 4
1928	25500.0 19	23100.0 18	16700.0 13	11800.0 8	7200.0 8	4100.0 11	2910.0 14	2410.0 13	1740.0 15	1060.0 16
1929	71800.0 2	43300.0 2	21400.0 8	10400.0 12	5490.0 20	3850.0 15	2770.0 17	2210.0 18	2040.0 12	1450.0 10
1930	9620.0 39	8240.0 33	5310.0 33	2770.0 36	1510.0 39	920.0 37	640.0 39	502.0 39	411.0 39	246.0 38
1931	11200.0 34	7790.0 35	6490.0 30	3570.0 31	1960.0 33	1150.0 36	889.0 35	711.0 35	514.0 36	327.0 36
1932	14900.0 31	9440.0 31	4900.0 36	3140.0 32	2330.0 31	1310.0 34	945.0 34	745.0 34	574.0 34	485.0 33
1933	11000.0 35	4160.0 45	2360.0 44	2210.0 41	1210.0 41	645.0 42	444.0 45	371.0 44	254.0 46	182.0 47
1934	4510.0 47	2670.0 48	1330.0 48	668.0 48	373.0 51	366.0 47	304.0 47	234.0 48	183.0 49	102.0 49
1935	21200.0 23	16100.0 24	10400.0 25	8290.0 18	6600.0 11	3920.0 14	2680.0 19	2040.0 19	1360.0 24	787.0 23
1936	6570.0 44	4490.0 43	2280.0 45	1200.0 45	852.0 46	599.0 43	448.0 44	362.0 45	255.0 45	152.0 46
1937	15800.0 29	13400.0 27	7520.0 28	4210.0 30	2510.0 30	2120.0 27	1630.0 29	1360.0 29	1060.0 28	733.0 25
1938	21000.0 24	18300.0 23	14200.0 18	8480.0 17	5190.0 22	3070.0 22	2170.0 24	1690.0 25	1200.0 25	632.0 28
1939	8210.0 42	5950.0 42	2910.0 42	1580.0 43	987.0 43	577.0 44	469.0 43	385.0 43	282.0 44	159.0 45
1940	10700.0 36	7510.0 38	3400.0 41	2320.0 39	1540.0 38	1230.0 35	864.0 36	660.0 36	469.0 37	243.0 39
1941	15500.0 30	14000.0 25	8010.0 27	4970.0 28	3140.0 28	1910.0 29	1680.0 27	1450.0 27	1200.0 26	746.0 24
1942	15900.0 26	12800.0 29	8740.0 26	6410.0 24	3700.0 26	2110.0 28	2260.0 22	1850.0 23	1720.0 16	1290.0 13
1943	36400.0 10	30700.0 9	17100.0 12	9360.0 15	5490.0 21	3400.0 19	2520.0 21	1960.0 21	1670.0 19	1150.0 15
1944	77100.0 1	49400.0 1	27000.0 1	17300.0 2	12000.0 2	8230.0 2	5760.0 2	4590.0 2	3110.0 2	1600.0 4
1945	47400.0 6	38000.0 7	20900.0 9	12600.0 6	7800.0 5	4660.0 6	3260.0 9	2590.0 9	2260.0 8	1650.0 7
1946	39000.0 9	25600.0 15	11900.0 22	5930.0 25	3170.0 27	1700.0 30	1190.0 32	1070.0 31	860.0 31	509.0 31
1947	28000.0 17	26200.0 13	19300.0 10	10400.0 13	5970.0 17	4140.0 10	3320.0 8	2640.0 8	1760.0 13	920.0 20
1948	15800.0 27	13000.0 28	10800.0 23	8050.0 19	6240.0 14	3810.0 17	2610.0 20	1970.0 20	1370.0 23	710.0 26
1949	14200.0 32	11300.0 30	6910.0 29	5360.0 27	4240.0 23	3240.0 21	2700.0 18	2350.0 15	2090.0 10	1170.0 14
1950	29300.0 15	24300.0 17	15600.0 15	10300.0 14	6780.0 10	3830.0 16	2790.0 15	2260.0 16	1530.0 22	840.0 22
1951	61100.0 3	41500.0 4	26800.0 2	17600.0 1	12300.0 1	8420.0 1	7030.0 1	5440.0 1	4220.0 1	2210.0 1
1952	10200.0 37	7410.0 39	4050.0 39	2500.0 38	1620.0 35	1360.0 33	1200.0 31	988.0 32	754.0 32	544.0 30
1953	18500.0 25	13700.0 26	6160.0 31	2970.0 34	1620.0 36	907.0 38	699.0 37	544.0 38	376.0 40	202.0 42
1954	295.0 52	224.0 52	161.0 52	99.5 52	75.2 52	58.8 52	51.6 52	44.5 52	38.9 52	26.2 52
1955	2590.0 51	1930.0 49	930.0 50	552.0 49	455.0 48	270.0 51	183.0 51	139.0 51	98.0 51	55.7 51
1956	4220.0 48	3300.0 46	2180.0 46	1090.0 46	552.0 47	280.0 50	191.0 50	145.0 50	100.0 50	67.9 50
1957	29100.0 16	24500.0 16	13500.0 20	7550.0 20	5990.0 16	4470.0 9	3210.0 10	2560.0 10	1750.0 14	879.0 21
1958	25100.0 20	21000.0 21	10800.0 24	5920.0 26	4220.0 24	2460.0 25	1770.0 26	1900.0 22	1540.0 21	931.0 19
1959	25900.0 18	21900.0 19	14000.0 19	7340.0 22	4080.0 25	2520.0 24	1840.0 25	1600.0 26	1160.0 27	651.0 27
1960	29400.0 14	27700.0 10	18500.0 11	10600.0 11	5660.0 19	3010.0 23	2170.0 23	1790.0 24	1690.0 18	1320.0 12
1961	53300.0 4	39000.0 5	21500.0 7	11900.0 7	7100.0 9	4570.0 7	3700.0 6	3190.0 6	2940.0 3	1690.0 5
1962	22900.0 22	20800.0 22	13300.0 21	6720.0 23	6230.0 15	4090.0 12	3010.0 12	2790.0 7	2100.0 9	1390.0 11
1963	9040.0 41	7570.0 37	4190.0 38	2210.0 40	1180.0 42	849.0 39	606.0 40	499.0 40	439.0 38	321.0 37
1964	5410.0 46	2960.0 47	1500.0 47	1010.0 47	944.0 44	545.0 45	521.0 42	402.0 42	306.0 43	175.0 44
1965	42900.0 7	34700.0 8	22800.0 5	13200.0 5	7520.0 6	4540.0 8	3850.0 5	3400.0 5	2910.0 4	2090.0 2
1966	3440.0 50	1420.0 51	828.0 51	463.0 51	397.0 49	335.0 48	276.0 48	259.0 47	242.0 47	193.0 43
1967	9950.0 38	7970.0 34	5120.0 34	4490.0 29	2900.0 29	2200.0 26	1670.0 28	1420.0 28	945.0 29	485.0 32
1968	12600.0 33	7770.0 36	4580.0 37	2770.0 37	2210.0 32	1430.0 31	1400.0 30	1250.0 30	939.0 30	616.0 29
1969	23100.0 21	21300.0 20	15500.0 16	8480.0 16	6420.0 12	5840.0 4	4900.0 3	4090.0 3	2910.0 5	1960.0 3
1970	30700.0 12	26200.0 14	14500.0 17	7480.0 21	5960.0 18	3300.0 20	2930.0 13	2260.0 17	1620.0 20	971.0 17
1971	7430.0 43	6080.0 41	3480.0 40	2080.0 42	1260.0 40	761.0 41	667.0 38	604.0 37	517.0 35	342.0 35
1972	6130.0 45	4270.0 44	2430.0 43	1460.0 44	883.0 45	495.0 46	381.0 46	314.0 46	327.0 42	227.0 40
1973	30400.0 13	27100.0 12	21700.0 6	13800.0 4	9410.0 3	5890.0 3	4710.0 4	3960.0 4	2870.0 6	1620.0 8
1974	42900.0 8	38100.0 6	23000.0 4	11500.0 9	6390.0 13	3750.0 18	2770.0 16	2410.0 14	2080.0 11	1690.0 6

## MONTHLY DURATION TABLE

WALNUT RIVER AT WINFIELD, KANSAS

PERIOD 1922-1974

CLASS LIMIT	TOTAL PERCENT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
0.00	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0.10	98.6	100.0	100.0	100.0	100.0	100.0	100.0	99.0	94.8	93.7	96.7	99.0	100.0
0.14	98.5	100.0	100.0	100.0	100.0	99.8	100.0	99.0	94.6	93.6	96.6	99.0	100.0
0.21	98.5	100.0	100.0	100.0	100.0	99.8	100.0	99.0	94.6	93.6	96.6	99.0	100.0
0.32	98.5	100.0	100.0	100.0	100.0	99.8	100.0	99.0	94.6	93.6	96.5	99.0	100.0
0.48	98.5	100.0	100.0	100.0	100.0	99.8	100.0	98.9	94.3	93.6	96.5	98.9	100.0
0.73	98.4	100.0	100.0	100.0	100.0	99.7	100.0	98.8	94.2	92.9	96.5	98.9	100.0
1.10	98.2	100.0	100.0	100.0	100.0	99.7	99.9	98.7	93.2	92.2	96.3	98.8	100.0
1.70	98.1	100.0	100.0	100.0	100.0	99.6	99.8	98.6	93.1	92.1	96.3	98.3	100.0
2.50	97.8	100.0	100.0	99.8	100.0	99.3	99.7	97.7	91.8	91.4	96.2	97.5	100.0
3.80	97.3	99.4	99.9	99.6	99.9	98.4	99.4	97.0	90.5	91.3	96.0	97.2	98.8
5.70	96.4	98.2	99.7	98.8	99.6	97.7	99.0	95.6	89.4	90.6	95.0	96.0	97.8
8.60	95.0	98.1	98.5	97.5	98.9	96.8	98.6	92.8	89.0	88.6	93.0	92.9	96.2
13.00	92.8	94.9	97.5	95.4	97.1	96.1	97.0	91.5	87.3	86.7	88.1	89.4	93.3
19.00	89.3	92.1	93.3	92.2	95.2	94.9	95.3	88.9	84.3	82.5	78.9	83.9	90.4
29.00	83.5	84.2	85.8	87.3	90.9	92.8	92.8	83.4	78.6	75.7	69.6	75.8	85.3
44.00	76.4	75.4	75.6	80.8	87.7	90.1	89.0	77.8	70.4	66.2	58.2	69.6	75.9
67.00	68.8	68.4	68.6	73.0	82.9	85.9	85.2	71.2	59.4	53.4	51.1	62.2	66.3
100.00	60.8	59.7	59.0	63.4	74.0	81.2	78.3	63.2	48.2	44.3	45.3	55.4	57.8
150.00	50.6	47.2	46.5	52.9	65.5	70.7	70.5	54.1	36.0	34.5	38.5	45.4	44.5
230.00	39.2	31.8	30.2	42.3	55.3	59.3	61.4	42.2	23.7	28.4	30.5	34.0	30.5
340.00	29.9	20.8	20.1	32.5	45.6	49.6	50.8	32.1	16.5	22.7	24.9	22.9	19.8
520.00	21.3	11.2	11.2	23.7	33.5	37.1	40.1	23.9	11.3	17.4	16.9	16.1	11.9
780.00	15.3	7.1	7.4	16.1	24.0	28.3	31.3	17.8	8.4	12.7	12.2	10.8	6.5
1200.00	10.7	5.1	4.9	11.2	17.3	19.5	22.5	12.8	6.3	8.8	8.6	6.7	3.7
1800.00	7.8	3.3	3.3	8.3	12.3	14.1	16.9	9.9	4.8	7.0	6.3	4.6	2.3
2700.00	5.7	2.1	2.2	5.3	9.1	10.7	12.6	7.5	3.4	5.2	5.0	2.9	1.4
4100.00	4.1	1.1	1.3	3.8	7.1	7.8	8.9	5.7	2.4	4.2	3.3	2.2	1.0
6100.00	3.0	0.7	1.1	2.8	5.8	5.5	6.8	4.3	1.3	3.1	2.5	1.5	0.6
9200.00	1.8	0.4	0.3	1.8	3.6	3.7	4.2	2.6	0.7	1.6	1.7	0.8	0.4
14000.00	1.0	0.1	0.1	0.9	2.3	2.0	2.2	1.3	0.2	0.8	1.1	0.7	0.3
21000.00	0.4	0.0	0.0	0.2	1.2	0.7	0.8	0.4	0.1	0.1	0.9	0.5	0.1
32000.00	0.1	0.0	0.0	0.0	0.3	0.2	0.3	0.1	0.0	0.1	0.2	0.3	0.0
48000.00	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.1	0.0
72000.00	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

## STATISTICS OF ANNUAL DISCHARGE FOR WATER YEARS, 1923-74

Units of annual Discharge	Mean	Standard Deviation	Coefficient of Variation	Skew Coefficient	First Order Serial Correlation Coefficient
CFS	794	607	0.76	0.65	0.21
LOGS of CFS	2.724	0.453		-0.78	0.400

ARKANSAS RIVER BASIN

31

07148350 SALT FORK ARKANSAS RIVER NEAR WINCHESTER, OKLA.

LOCATION.--Lat 36°57'45", long 98°46'55", in NE 1/4 SE 1/4 sec.26, T.29 N., R.15 W., Woods County, near left bank on downstream side of pier of county road bridge, 1 mi (1.6 km) northeast of Winchester, 2.5 mi (4.0 km) upstream from Greenwood Creek, 4.9 mi (7.9 km) downstream from Yellowstone Creek, 5 mi (8.0 km) downstream from State line, 19 mi (30.6 km) northwest of Alva, and at mile 156.2 (251.3 km).

DRAINAGE AREA.--856 mi<sup>2</sup> (2,220 km<sup>2</sup>).

PERIOD OF RECORD.--October 1959 to September 1974.

AVERAGE DISCHARGE.--15 years (1960-74), 87.6 ft<sup>3</sup>/s (2.48 m<sup>3</sup>/s).

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

SALT FORK ARKANSAS RIVER NEAR WINCHESTER, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS	
1960																																				44470.5
1961	10																																			39067.4
1962																																				25824.7
1963																																				23628.3
1964	81																																			4738.1
1965	33																																			43848.1
1966	36																																			10556.8
1967	38	4	5																																	10996.6
1968	16	1	2																																	15699.4
1969	9																																			64660.7
1970	54	2	4																																	17102.0
1971	67	1	3	6	11	19	27	3	1	5	7	2	2	7	12	18	18	37	45	29	13	12	10	7	1	2									8539.6	
1972	18	1																																		30153.2
1973																																				88923.6
1974																																				51621.2

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	362	5479	100.0	9	0.40	98	4706	85.9	18	19.0	675	3172	57.9	27	870	28	77	1.4
1	0.01	9	5117	93.4	10	0.60	123	4608	84.1	19	29.0	765	2497	45.6	28	1300	20	49	.8
2	0.02	14	5108	93.2	11	1.00	96	4485	81.9	20	44.0	630	1732	31.6	29	2000	8	29	.5
3	0.03	6	5094	93.0	12	1.50	111	4389	80.1	21	68.0	428	1102	20.1	30	3100	7	21	.3
4	0.04	56	5088	92.9	13	2.30	124	4278	78.1	22	100.0	256	674	12.3	31	4800	7	14	.2
5	0.07	58	5032	91.8	14	3.50	133	4154	75.8	23	160.0	139	418	7.6	32	7300	5	7	.1
6	0.10	117	4974	90.8	15	5.30	208	4021	73.4	24	240.0	95	279	5.1	33	11000	2	2	.0
7	0.20	88	4857	88.6	16	8.10	236	3813	69.6	25	370.0	68	184	3.4	34				
8	0.30	63	4769	87.0	17	12.00	405	3577	65.3	26	570.0	39	116	2.1					

## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## SALT FORK ARKANSAS RIVER NEAR WINCHESTER, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1961	0.10 11	0.17 12	0.20 12	0.43 11	3.99 12	29.10 13	28.30 10	33.30 11	35.20 9	74.80 8
1962	0.00 1	0.00 1	0.06 8	0.25 10	3.33 10	16.50 10	41.40 13	38.80 13	42.70 11	101.00 9
1963	0.10 12	0.20 13	0.30 13	0.48 12	2.01 9	16.60 11	28.50 11	30.20 9	32.50 8	65.50 7
1964	0.10 13	0.10 10	0.14 11	0.21 9	0.28 6	2.45 6	3.56 6	6.92 6	12.10 6	54.80 6
1965	0.00 2	0.00 2	0.00 1	0.00 1	0.00 1	0.65 5	1.15 3	0.86 2	8.81 4	27.60 2
1966	0.00 3	0.00 3	0.00 2	0.03 6	3.43 11	7.10 7	15.30 8	31.60 10	31.50 7	120.00 11
1967	0.00 4	0.00 4	0.00 3	0.00 2	0.03 4	0.05 1	0.05 1	0.10 1	3.24 1	10.10 1
1968	0.00 5	0.00 5	0.00 4	0.02 5	0.12 5	0.34 4	1.78 4	3.46 4	6.39 3	32.70 3
1969	0.00 6	0.01 9	0.11 9	0.67 14	2.00 8	41.50 14	46.60 14	47.70 14	60.50 13	108.00 10
1970	0.00 7	0.00 6	0.01 7	0.20 8	13.10 14	18.90 12	35.40 12	36.40 12	40.20 10	127.00 12
1971	0.00 8	0.00 7	0.00 5	0.00 3	0.02 3	0.09 3	0.31 2	1.21 3	3.43 2	38.80 5
1972	0.00 9	0.00 8	0.00 6	0.00 4	0.00 2	0.05 2	1.86 5	4.39 5	11.50 5	37.50 4
1973	0.18 14	0.27 14	0.30 14	0.64 13	4.25 13	11.60 9	15.50 9	28.30 8	44.30 12	177.00 13
1974	0.09 10	0.12 11	0.13 10	0.16 7	0.30 7	7.91 8	14.90 7	22.90 7	189.00 14	220.00 14

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## SALT FORK ARKANSAS RIVER NEAR WINCHESTER, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1960	4040.0 8	1660.0 8	836.0 9	493.0 9	287.0 9	199.0 9	162.0 8	154.0 7	148.0 6	122.0 4
1961	12100.0 1	4300.0 3	2200.0 4	1150.0 4	586.0 4	320.0 5	230.0 5	209.0 5	171.0 5	107.0 6
1962	3160.0 9	1590.0 9	1110.0 8	568.0 8	291.0 8	201.0 8	144.0 9	141.0 9	98.5 8	70.8 8
1963	5990.0 7	2730.0 6	1230.0 6	654.0 7	402.0 7	245.0 7	167.0 7	144.0 8	97.5 9	64.7 9
1964	357.0 15	137.0 15	99.5 15	65.7 15	44.8 15	34.5 15	28.4 15	26.6 15	23.8 15	12.9 15
1965	10100.0 3	3920.0 5	3240.0 2	1890.0 2	1050.0 2	561.0 2	381.0 2	293.0 2	203.0 3	120.0 5
1966	716.0 13	479.0 13	256.0 13	139.0 14	80.8 14	51.8 14	48.6 14	46.0 14	43.7 14	28.9 13
1967	1960.0 11	1030.0 10	508.0 10	381.0 10	256.0 10	143.0 10	97.6 11	81.5 12	57.7 12	30.1 12
1968	2320.0 10	840.0 11	386.0 12	193.0 12	143.0 12	98.0 12	94.3 12	82.5 11	76.7 10	42.9 11
1969	8660.0 4	5180.0 2	2310.0 3	1250.0 3	873.0 3	449.0 3	309.0 3	252.0 3	216.0 2	177.0 2
1970	1070.0 12	533.0 12	408.0 11	224.0 11	153.0 11	121.0 11	110.0 10	91.3 10	72.8 11	46.9 10
1971	537.0 14	395.0 14	204.0 14	147.0 13	104.0 13	85.8 13	67.7 13	58.7 13	43.7 13	23.4 14
1972	6050.0 6	2560.0 7	1170.0 7	797.0 6	511.0 6	260.0 6	213.0 6	162.0 6	112.0 7	82.4 7
1973	11200.0 2	7090.0 1	3410.0 1	1900.0 1	1420.0 1	1040.0 1	739.0 1	578.0 1	405.0 1	244.0 1
1974	7790.0 5	4000.0 4	2020.0 5	1050.0 5	584.0 5	343.0 4	261.0 4	215.0 4	195.0 4	141.0 3

## STATISTICS OF ANNUAL DISCHARGE FOR WATER YEARS, 1960-74

Units of annual Discharge	Mean	Standard Deviation	Coefficient of Variation	Skew Coefficient	First Order Serial Correlation Coefficient
CFS	87.6	64.8	0.74	1.07	0.12
LOGS of CFS	1.819	0.360		-0.342	0.054

# ARKANSAS RIVER BASIN

33

07148400 SALT FORK ARKANSAS RIVER NEAR ALVA, OKLA.

LOCATION.--Lat 36°48'45", long 98°38'50", in SW 1/4 SW 1/4 sec.18, T.27 N., R.13 W., near left bank on downstream side of pier of bridge on State Highway 14, 1.0 mi (1.6 km) northeast of Alva, 19.0 mi (30.6 km) upstream from Medicine Lodge River, and at mile 126.0 (202.7 km).

DRAINAGE AREA.--1,009 mi<sup>2</sup> (2,613 km<sup>2</sup>).

PERIOD OF RECORD.--October 1937 to September 1951.

AVERAGE DISCHARGE.--13 years (1939-51), 151 ft<sup>3</sup>/s (4.28 m<sup>3</sup>/s).

REMARKS.--Extreme low flow sustained by sewage from Alva.

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

SALT FORK ARKANSAS RIVER NEAR ALVA, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	
YEAR	NUMBER OF DAYS IN CLASS																																		CFS-DAYS	
1939	66								12	35	18	21	38	42	32	24	15	20	18	9	2	4	4	1	1	2										10079.0
1940	263								19	5	1	6	4	6	6	10	3	10	4	3	7	3	4	2	6	1	1	1	1							11979.0
1941	74								24	11	6	11	11	12	20	30	31	43	29	19	16	6	2	5	5	1	5	1	3							26826.0
1942									1	5	2	2	5	5	12	29	21	45	47	68	38	26	10	10	10	8	7	4	4	3			1	1	1	96631.0
1943	62								11	3	6	11	6	4	23	22	35	67	45	27	16	11	5	4	3	1	1	1			1	1			27588.0	
1944	92								31	15	13	10	9	11	12	30	27	20	32	22	9	4	4	4	5	4	4	4	2		1	1			40386.0	
1945									9	37	7	8	15	11	15	17	27	69	48	27	15	10	13	13	6	4	9	3	1			1			53508.0	
1946		47	1	1	5	3	10		5	2	5	6	8	11	29	44	40	63	35	17	12	7	4	2	3	2	3								18317.7	
1947	13				15	16	5		2	8	5	5	7	29	11	38	31	50	25	21	14	11	15	9	5	10	3	6	4	5	1				65922.4	
1948	60				1	2	1		1	17	16	11	14	19	20	16	19	13	31	34	21	14	15	9	8	7	6	4	2	2	1	1			67193.7	
1949																																			157980.0	
1950										6	5	10	6	1	8	19	32	40	38	101	54	18	7	6	1	4	3	2	2	1	1				45687.1	
1951																																				95233.6

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	630	4748	100.0	9	2.60	84	3750	79.0	18	67.0	405	1399	29.5	27	1700	28	73	1.5
1	0.10	47	4118	86.7	10	3.70	108	3666	77.2	19	96.0	279	994	20.9	28	2500	19	45	.9
2	0.20	3	4071	85.7	11	5.30	123	3558	74.9	20	140.0	179	715	15.1	29	3600	7	26	.5
3	0.30	1	4068	85.7	12	7.60	176	3435	72.3	21	200.0	127	536	11.3	30	5100	10	19	.4
4	0.40	21	4067	85.7	13	11.00	223	3259	68.6	22	280.0	103	409	8.6	31	7300	6	9	.1
5	0.60	21	4046	85.2	14	16.00	308	3036	63.9	23	410.0	80	306	6.4	32	11000	1	3	.0
6	0.90	114	4025	84.8	15	23.00	331	2728	57.5	24	580.0	64	226	4.8	33	15000	2	2	.0
7	1.30	17	3911	82.4	16	32.00	571	2397	50.5	25	840.0	53	162	3.4	34				
8	1.80	144	3894	82.0	17	46.00	427	1826	38.5	26	1200.0	36	109	2.3					



## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## SALT FORK ARKANSAS RIVER NEAR ALVA, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1939	0.00 1	0.67 9	1.29 8	1.57 8	1.97 6	3.80 5	8.08 5	9.53 4	13.70 4	257.00 12
1940	0.00 2	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	16.80 1
1941	0.00 3	0.00 2	0.00 2	0.00 2	0.00 2	5.88 6	10.90 6	12.50 5	22.30 5	44.00 3
1942	0.00 4	0.00 3	0.00 3	0.00 3	9.27 11	53.40 12	57.10 12	64.50 12	124.00 13	204.00 10
1943	1.00 10	1.67 10	3.29 12	6.71 12	21.90 12	39.20 11	39.90 10	44.20 11	110.00 12	179.00 9
1944	0.00 5	0.00 4	0.00 4	0.00 4	0.00 3	0.53 3	0.73 3	1.70 2	4.11 2	29.80 2
1945	0.00 6	0.00 5	0.00 5	0.00 5	4.90 8	10.50 7	14.00 7	17.00 7	23.20 6	124.00 6
1946	1.60 11	1.73 11	1.77 10	1.78 9	1.97 7	12.40 8	29.20 9	29.80 9	54.40 9	148.00 7
1947	0.10 8	0.10 7	0.10 7	0.10 7	0.10 5	2.77 4	4.38 4	14.90 6	38.60 8	66.70 4
1948	0.00 7	0.00 6	0.00 6	0.00 6	0.00 4	0.02 2	0.12 2	2.96 3	11.20 3	172.00 8
1949	0.20 9	0.53 8	1.63 9	3.88 10	6.13 10	22.60 10	42.30 11	41.70 10	107.00 11	215.00 11
1950	30.00 13	31.30 13	37.90 13	50.00 13	56.80 13	78.80 13	87.00 13	89.20 13	102.00 10	419.00 13
1951	2.40 12	2.50 12	2.71 11	4.36 11	5.07 9	20.80 9	24.00 8	25.70 8	32.20 7	94.40 5

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## SALT FORK ARKANSAS RIVER NEAR ALVA, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1939	1560.0 12	608.0 13	286.0 13	198.0 13	114.0 13	66.6 13	58.1 13	59.9 13	44.5 13	27.6 13
1940	1770.0 11	832.0 11	487.0 11	241.0 11	175.0 11	122.0 11	88.2 12	83.5 12	65.4 12	32.7 12
1941	2010.0 10	1280.0 10	705.0 10	368.0 10	249.0 10	223.0 10	176.0 10	150.0 9	124.0 9	73.5 10
1942	13900.0 3	9250.0 2	4740.0 2	2540.0 3	1360.0 3	732.0 4	514.0 5	401.0 5	325.0 4	265.0 2
1943	5930.0 7	3190.0 6	1530.0 7	776.0 8	459.0 8	251.0 9	187.0 9	150.0 10	112.0 10	75.6 9
1944	6620.0 6	2950.0 8	1440.0 9	1160.0 7	851.0 5	558.0 6	394.0 6	308.0 6	213.0 7	110.0 8
1945	8070.0 4	3270.0 5	1510.0 8	713.0 9	446.0 9	338.0 8	354.0 7	290.0 7	245.0 6	147.0 6
1946	1180.0 13	813.0 12	403.0 12	207.0 12	141.0 12	109.0 12	98.0 11	87.1 11	72.3 11	50.2 11
1947	4740.0 8	3090.0 7	1980.0 5	1210.0 5	745.0 6	700.0 5	535.0 4	450.0 3	309.0 5	181.0 5
1948	7660.0 5	5830.0 4	3260.0 4	1740.0 4	927.0 4	791.0 3	573.0 3	441.0 4	342.0 3	184.0 4
1949	17000.0 1	9650.0 1	5770.0 1	3250.0 1	2640.0 1	1530.0 1	1150.0 1	1000.0 1	738.0 1	433.0 1
1950	4130.0 9	2340.0 9	1960.0 6	1190.0 6	717.0 7	386.0 7	266.0 8	209.0 8	155.0 8	125.0 7
1951	15100.0 2	6400.0 3	3780.0 3	2830.0 2	1600.0 2	1240.0 2	869.0 2	693.0 2	484.0 2	261.0 3

## STATISTICS OF ANNUAL DISCHARGE FOR WATER YEARS, 1939-51

Units of annual Discharge	Mean	Standard Deviation	Coefficient of Variation	Skew Coefficient	First Order Serial Correlation Coefficient
CFS	151	115	0.76	1.257	0.06
LOGS of CFS	2.054	0.361		-0.271	0.321

ARKANSAS RIVER BASIN

35

07149000 MEDICINE LODGE RIVER NEAR KIOWA, KANS.

LOCATION.--Lat 37°02'17", long 98°28'04", in SE 1/4 SW 1/4 sec.36, T.34 S., R.11 W., Barber County, at downstream side of bridge on State Highway 14, 200 ft (61 m) downstream from the Atchison, Topeka and Santa Fe Railway Co. bridge, 1.5 mi (2.4 km) northeast of Kiowa, and at mile 22.2 (35.7 km).

DRAINAGE AREA.--903 mi<sup>2</sup> (2,340 km<sup>2</sup>).

PERIOD OF RECORD.--May 1895 to October 1896, October 1937 to September 1950, October 1954 to September 1955, June 1959 to September 1974.

AVERAGE DISCHARGE.--28 years (1939-74), 138 ft<sup>3</sup>/s (3.91 m<sup>3</sup>/s).

DUPATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

MEDICINE LODGE RIVER NEAR KIOWA, KANSAS

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34		
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS		
1939	75										1	1	2	3	7	17	17	14	25	67	95	20		8	4	3	3	2	1							18549.0	
1940	159										7	6	1	2	10	7	6	9	15	49	42	31	8	3	2	4	1	1	1	1	1	1				21722.0	
1941	62										12	5	1	5	10	13	5	10	15	36	108	44	15	7	2	3	3	3	2	3	1					36717.0	
1942																	2	4	24	46	69	105	40	32	14	10	4	4	4	2	1	1	2	1		86557.0	
1943	57										3	2	4	2	6	5	3	13	6	33	71	104	36	11	3	3		1				1				34125.0	
1944	29										4	2	1	5	4	10	10	14	41	43	61	54	32	17	11	7	4	5	7	2	2	1				59810.0	
1945	23				4	8	3	9			2	2	1	1	1	1	2	2	4	27	58	102	44	26	14	11	9	3	3	3	2		1			70335.6	
1946	64				2	12	4	1	2	2	3	4	4	2	5	3	2	2	31	41	118	32	15	5	5	5					1					32332.3	
1947	36				1			2	1	1	2	1	2	3	6	16	4	22	28	55	83	26	24	15	13	8	9	4	1	2						62899.2	
1948	28												1			9	8	12	31	53	59	62	31	21	21	6	9	4	6	2	1	2				67907.0	
1949																			8	17	31	82	43	55	29	25	22	22	10	8	7	3	3			180482.0	
1950																2	5	13	14	62	85	135	35	5	5	1			3							47424.0	
1955	92					1	1			5	4	2	5	1	3	6	31	38	46	56	33	11	10	3	3	7	2	3	2							21191.8	
1960																	1	21	18	15	20	43	121	45	36	24	10	4	2	4	2					56948.0	
1961																	9	3	14	22	28	77	148	31	17	6	5	3				1	1				40915.4
1962	1						2		1	2		2	1	2	2	4	13	30	50	76	122	32	12	9	2	1					1					33676.4	
1963							1	2	1	5	4	2	4	4	4	14	24	47	47	150	34	8	5	4	2	1			1	1						25652.5	
1964	64				2	3	1	4	2	3	4	2	2	14	7	7	13	42	72	110	13	1														13360.2	
1965	6				1					3	4	2	3	9	9	3	4	16	20	90	98	30	32	8	6	6	5	4	4	2						63513.7	
1966					6	2	2	1			3	1	2	5	14	27	31	25	20	52	132	28	7	2	2	1	1	1								28941.0	
1967					2	5	2	1	2	5	2	5	12	17	10	15	44	71	110	37	7	5	1	4	1											20281.5	
1968					2	2	1	1	2		1	3	4	9	14	33	43	78	115	34	10	5	3	3	1	2										23567.3	
1969														2	2	1	13	21	19	34	108	75	39	19	12	5	7	2	3	2	1					76105.8	
1970						2	12	2	2	4	4	2		5	6	11	17	13	15	26	164	45	17	9	3	3	1	1	1							40318.1	
1971	15	2	1	1		1	1	1		2	1	3		1	2	6	11	16	31	38	87	85	36	18	2	2				1	1					31144.7	
1972											1	1	1	2	4	10	26	30	45	108	98	23	7	6	2		2									29533.6	
1973										5	10	4	2	1	1	8	6	12	9	43	16	37	40	56	30	21	22	21	6	4	8	1	2			95942.1	
1974															3	3	5	15	13	7	36	45	74	94	39	17	6	3	1	1	1	1	1			86664.7	

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	711	10227	100.0	9	0.70	32	9395	91.9	18	24.0	687	8221	80.4	27	840	86	238	2.3
1	0.02	2	9516	93.0	10	1.00	55	9363	91.6	19	36.0	1046	7534	73.7	28	1200	61	152	1.4
2	0.04	1	9514	93.0	11	1.50	55	9308	91.0	20	53.0	1936	6488	63.4	29	1800	47	91	.8
3	0.06	1	9513	93.0	12	2.30	40	9253	90.5	21	79.0	2180	4552	44.5	30	2700	24	44	.4
4	0.09	1	9512	93.0	13	3.30	50	9213	90.1	22	120.0	960	2372	23.2	31	4100	12	20	.1
5	0.10	15	9511	93.0	14	5.00	118	9163	89.6	23	170.0	578	1412	13.8	32	6000	7	8	.0
6	0.20	37	9496	92.9	15	7.40	178	9045	88.4	24	260.0	280	834	8.2	33	9000	1	1	
7	0.30	24	9459	92.5	16	11.00	258	8867	86.7	25	380.0	194	554	5.4	34				
8	0.50	40	9435	92.3	17	16.00	388	8609	84.2	26	570.0	122	360	3.5					

## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## MEDICINE LODGE RIVER NEAR KIOWA, KANSAS

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1939	1.00 18	3.00 19	6.00 20	7.29 19	9.73 15	32.20 17	47.10 16	49.40 13	51.00 11	246.00 23
1940	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.03 1	1.98 1	30.10 1
1941	0.00 2	0.00 2	0.00 2	0.00 2	0.80 8	5.58 7	5.01 4	11.80 4	19.80 3	75.60 8
1942	0.00 3	0.00 3	0.00 3	0.00 3	1.33 9	13.80 10	24.50 13	64.10 18	145.00 23	215.00 22
1943	15.00 24	15.70 24	24.60 24	34.50 25	47.80 25	82.80 25	83.10 23	88.20 23	141.00 22	169.00 16
1944	0.00 4	0.00 4	0.00 4	0.00 4	0.00 2	5.28 6	12.40 6	12.70 5	29.10 6	55.50 4
1945	0.00 5	0.00 5	0.00 5	0.50 11	3.83 13	21.00 15	66.30 22	71.50 21	74.20 15	185.00 19
1946	0.00 6	0.00 6	0.00 6	0.00 5	0.03 6	2.68 5	36.70 14	61.70 17	124.00 21	198.00 21
1947	0.00 7	0.00 7	0.00 7	0.00 6	0.00 3	0.00 2	0.07 2	2.61 3	35.70 8	88.00 9
1948	0.00 8	0.00 8	0.00 8	0.00 7	0.00 4	0.86 3	11.40 5	25.70 9	39.40 9	181.00 17
1949	7.80 21	8.67 21	9.93 22	18.90 23	22.40 21	47.00 21	58.70 19	69.40 20	154.00 25	250.00 24
1950	75.00 26	84.70 26	88.00 26	94.00 26	115.00 26	131.00 26	136.00 26	136.00 26	147.00 24	436.00 26
1961	10.00 23	10.70 23	11.60 23	12.80 22	17.60 19	40.20 19	64.30 21	66.40 19	82.40 17	114.00 12
1962	8.60 22	8.87 22	9.00 21	11.10 21	25.60 23	53.90 22	64.00 20	77.60 22	103.00 18	114.00 13
1963	0.00 9	0.23 13	1.26 17	5.73 18	19.20 20	38.50 18	45.20 15	54.90 14	56.60 12	73.30 7
1964	0.00 16	0.73 17	0.96 15	3.46 15	4.92 14	18.40 14	17.40 10	22.70 8	30.60 6	62.00 5
1965	0.40 10	0.00 9	0.00 9	0.00 8	0.00 5	1.00 4	0.97 3	2.58 2	14.90 2	62.10 6
1966	1.90 19	2.03 18	2.64 18	5.36 17	17.20 18	81.20 24	94.00 25	114.00 25	122.00 20	185.00 20
1967	0.20 13	0.20 12	0.21 11	0.84 14	11.30 16	15.10 11	16.40 8	18.00 6	24.40 4	44.10 9
1968	0.09 12	0.14 11	0.21 12	0.48 10	1.62 10	6.21 8	14.90 7	20.70 7	28.30 5	53.30 3
1969	0.26 14	0.28 14	0.97 16	4.84 16	11.30 17	30.90 16	53.00 18	57.80 16	76.10 16	117.00 14
1970	18.00 26	20.00 25	26.90 25	29.40 24	41.70 24	61.00 23	91.40 24	94.90 24	103.00 19	184.00 18
1971	0.40 15	0.48 15	0.50 13	0.56 12	3.01 12	15.40 12	18.30 11	27.00 10	40.50 10	103.00 11
1972	0.00 11	0.00 10	0.00 10	0.00 9	0.61 7	8.05 9	16.90 9	32.70 11	67.50 14	88.70 10
1973	2.00 20	3.20 20	5.09 19	9.40 20	25.10 22	45.40 20	50.80 17	57.10 15	62.10 13	145.00 15
1974	0.60 17	0.63 16	0.66 14	0.71 13	2.92 11	18.40 13	24.10 12	45.70 12	252.00 26	312.00 25

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## MEDICINE LODGE RIVER NEAR KIOWA, KANSAS

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1939	1050.0 24	535.0 25	310.0 25	254.0 24	178.0 25	119.0 25	96.4 27	87.0 27	81.9 26	50.8 27
1940	3430.0 12	1990.0 14	1030.0 14	522.0 15	370.0 13	253.0 13	184.0 15	152.0 16	115.0 20	59.3 24
1941	3410.0 13	2550.0 10	1210.0 12	620.0 12	387.0 12	339.0 11	257.0 11	214.0 12	166.0 12	101.0 15
1942	9660.0 1	7680.0 1	4110.0 1	2230.0 2	1230.0 2	679.0 3	480.0 3	382.0 3	303.0 5	237.0 4
1943	4680.0 8	2620.0 9	1290.0 11	671.0 11	430.0 11	261.0 12	209.0 14	176.0 14	144.0 15	93.5 16
1944	4190.0 9	2660.0 7	1690.0 8	1330.0 5	935.0 4	644.0 4	468.0 4	370.0 5	271.0 7	163.0 10
1945	6720.0 4	3490.0 5	2480.0 4	1300.0 7	668.0 9	420.0 9	335.0 9	280.0 9	275.0 6	193.0 6
1946	2190.0 16	1020.0 20	502.0 22	308.0 22	227.0 21	162.0 21	145.0 20	138.0 18	120.0 19	88.6 18
1947	3650.0 11	2020.0 13	1730.0 6	994.0 10	631.0 10	568.0 6	433.0 6	364.0 6	266.0 8	172.0 9
1948	5810.0 5	3050.0 6	1670.0 9	1140.0 8	722.0 8	605.0 5	433.0 7	331.0 7	316.0 4	186.0 7
1949	8970.0 2	5560.0 3	3770.0 2	2460.0 1	2140.0 1	1410.0 1	1050.0 1	921.0 1	735.0 1	494.0 1
1950	1730.0 21	1150.0 19	717.0 17	440.0 18	278.0 20	206.0 18	163.0 16	159.0 15	147.0 14	130.0 12
1955	1550.0 22	918.0 22	538.0 21	432.0 19	356.0 14	214.0 16	158.0 17	127.0 21	97.5 23	58.1 25
1960	2220.0 15	1340.0 17	923.0 15	546.0 14	341.0 15	251.0 14	242.0 12	232.0 11	195.0 11	156.0 11
1961	3040.0 14	2090.0 12	1070.0 13	570.0 13	327.0 17	206.0 17	157.0 18	138.0 19	129.0 16	112.0 13
1962	1900.0 20	947.0 21	578.0 20	361.0 21	211.0 22	131.0 24	118.0 24	119.0 22	113.0 21	92.3 17
1963	2050.0 18	1550.0 15	835.0 16	471.0 17	285.0 18	169.0 20	122.0 23	108.0 24	95.5 24	70.3 22
1964	178.0 28	96.0 28	86.7 28	83.0 28	77.3 28	70.1 28	66.8 28	64.1 28	58.2 28	36.5 28
1965	3820.0 10	2500.0 11	1730.0 7	1330.0 6	807.0 6	512.0 8	368.0 8	309.0 8	247.0 10	174.0 8
1966	1510.0 23	794.0 23	434.0 23	267.0 23	189.0 24	140.0 23	131.0 21	135.0 20	122.0 18	79.3 21
1967	859.0 27	526.0 26	287.0 27	174.0 27	148.0 27	97.1 27	98.2 26	88.1 26	81.9 27	55.6 26
1968	953.0 26	543.0 24	302.0 26	218.0 26	163.0 26	115.0 26	100.0 25	94.0 25	86.5 25	64.4 23
1969	5080.0 6	2450.0 8	1380.0 10	1020.0 9	728.0 9	401.0 10	289.0 10	275.0 10	264.0 9	209.0 5
1970	1910.0 19	1150.0 18	636.0 19	476.0 16	339.0 16	245.0 15	223.0 13	190.0 13	157.0 13	110.0 14
1971	2110.0 17	1360.0 16	688.0 18	391.0 20	281.0 19	172.0 19	145.0 19	146.0 17	128.0 17	85.3 19
1972	963.0 25	509.0 27	344.0 24	219.0 25	195.0 23	149.0 22	126.0 22	114.0 23	97.9 22	80.7 20
1973	4790.0 7	3860.0 4	2250.0 5	1580.0 3	1180.0 3	949.0 2	716.0 2	583.0 2	433.0 2	263.0 2
1974	8840.0 3	5690.0 2	2870.0 3	1540.0 4	934.0 5	563.0 7	444.0 5	373.0 4	320.0 3	237.0 3

## STATISTICS OF ANNUAL DISCHARGE FOR WATER YEARS, 1939-50, 1955, 1960-74

Units of annual Discharge	Mean	Standard Deviation	Coefficient of Variation	Skew Coefficient	First Order Serial Correlation Coefficient
CFS	138	94.7	0.60	2.12	0.13
LOGS of CFS	2.059	0.262		0.305	0.200

## ARKANSAS RIVER BASIN

37

07149500 SALT FORK ARKANSAS RIVER NEAR CHEROKEE, OKLA.

LOCATION.--Lat 36°49'06", long 98°19'08", in SW 1/4 NW 1/4 sec.18, T.27 N., R.10 W., at site of abandoned Atchison, Topeka and Santa Fe Railway bridge, 0.7 mi (1.1 km) downstream from Medicine Lodge River, 4.0 mi (6.4 km) northeast of Cherokee, and at mile 106.3 (171.0 km).

DRAINAGE AREA.--2,439 mi<sup>2</sup> (6,317 km<sup>2</sup>).

PERIOD OF RECORD.--October 1940 to September 1950.

AVERAGE DISCHARGE.--10 years (1941-50), 394 ft<sup>3</sup>/s (11.2 m<sup>3</sup>/s).

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

SALT FORK ARKANSAS RIVER NEAR CHEROKEE, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34		
YEAR	NUMBER OF DAYS IN CLASS																																		CF8_DAYS		
1941	4							12	6	9	36	5	5	8	6	3	45	50	71	29	29	16	9	7	8	2	1	1	3								64600.0
1942										1	1	1	1	7	3	14	13	33	33	84	66	39	18	8	11	9	8	6	3	3	1	1	1	1			213467.0
1943	66						9		5	2	3	1	2	5	2	8	18	31	60	70	52	12	7	4	3	2	1		1							59638.0	
1944	36						6		5	5	3	4	13	22	24	27	24	50	41	25	29	13	7	7	6	6	4	4	2	2	1					93730.0	
1945	24		1		1		5		5	2	2	2	1	3	3	17	24	20	38	82	47	19	14	12	13	14	6	7		1	2					138600.0	
1946	75	1		1			2	1	1	1	4	10		6	2	3	8	35	65	80	30	13	6	8	7	4	2									56515.5	
1947	45	1					3	1	4	2	5	10	6	10	11	5	16	30	52	47	22	21	14	14	12	8	10	4	6	2	1	1				154035.5	
1948	53				2				4	1	1	2	4	5	11	22	17	48	21	22	39	27	20	19	15	5	11	9	4	1	1	2	2			148428.0	
1949																	20	2	10	20	50	41	52	38	30	32	13	17	14	7	9	5	4	1		409117.0	
1950					1						1	1	3	3	4	7	13	21	43	64	114	55	12	8	4	4	4		3							98794.4	

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	303	3652	100.0	9	2.90	23	3271	89.6	18	84.0	445	2333	63.9	27	2500	40	108	2.9					
1	0.10	2	3349	91.7	10	4.20	56	3248	88.9	19	120.0	570	1888	51.7	28	3600	26	68	1.8					
2	0.20	1	3347	91.6	11	6.10	38	3192	87.4	20	180.0	457	1318	36.1	29	5200	18	42	1.1					
3	0.30	1	3346	91.6	12	8.90	36	3154	86.4	21	260.0	260	861	23.6	30	7500	13	24	.6					
4	0.40	4	3345	91.6	13	13.00	75	3118	85.4	22	380.0	144	601	16.5	31	11000	8	11	.3					
5	0.60	0	3341	91.5	14	19.00	77	3043	83.3	23	550.0	113	457	12.5	32	16000	1	3	.0					
6	0.90	41	3341	91.5	15	27.00	121	2966	81.2	24	800.0	101	344	9.4	33	23000	2	2	.0					
7	1.40	2	3300	90.4	16	40.00	211	2845	77.9	25	1200.0	73	243	6.7	34									
8	2.00	27	3298	90.3	17	58.00	301	2634	72.1	26	1700.0	62	170	4.7										

## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

SALT FORK ARKANSAS RIVER NEAR CHEROKEE, OKLAHOMA

YEAR	1		3		7		14		30		60		90		120		183		ANNUAL	
1942	0.00	1	0.33	7	1.29	6	3.00	6	11.00	6	45.20	5	67.60	4	108.00	5	272.00	8	477.00	7
1943	4.00	8	7.33	8	17.30	8	36.60	8	68.90	8	116.00	8	120.00	8	133.00	8	246.00	6	374.00	4
1944	0.00	2	0.00	1	0.00	1	0.00	1	0.00	1	3.05	3	5.99	3	6.26	1	17.50	1	74.40	1
1945	0.00	3	0.00	2	0.00	2	0.07	5	9.70	5	47.40	6	90.50	5	91.50	4	102.00	4	311.00	3
1946	0.00	4	0.00	3	0.00	3	0.00	2	0.17	4	11.90	4	118.00	7	123.00	6	210.00	5	386.00	5
1947	0.00	5	0.00	4	0.00	4	0.00	3	0.00	2	0.66	2	0.76	1	11.10	2	80.20	3	169.00	2
1948	0.00	6	0.00	5	0.00	5	0.00	4	0.00	3	0.00	1	1.69	2	15.10	3	27.30	2	410.00	6
1949	0.00	7	0.00	6	2.71	7	16.50	7	27.00	7	69.60	7	114.00	6	131.00	7	437.00	9	585.00	8
1950	119.00	9	121.00	9	130.00	9	157.00	9	180.00	9	219.00	9	237.00	9	240.00	9	262.00	7	973.00	9

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

SALT FORK ARKANSAS RIVER NEAR CHEROKEE, OKLAHOMA

YEAR	1		3		7		15		30		60		90		120		183		ANNUAL
1941	3920.0	9	3170.0	9	1890.0	9	1070.0	9	697.0	9	624.0	8	480.0	7	390.0	7	289.0	8	177.0
1942	23200.0	2	18300.0	1	10400.0	2	5840.0	2	3210.0	2	1730.0	2	1200.0	3	940.0	3	787.0	2	585.0
1943	8330.0	6	4690.0	7	2580.0	8	1360.0	8	856.0	8	497.0	9	389.0	9	323.0	9	251.0	9	163.0
1944	8150.0	7	5450.0	6	3410.0	6	2580.0	5	1820.0	4	1160.0	5	832.0	5	651.0	6	461.0	6	256.0
1945	8860.0	5	6650.0	5	3730.0	5	1880.0	6	1350.0	6	858.0	6	803.0	6	687.0	5	575.0	5	380.0
1946	2410.0	10	1380.0	10	784.0	10	649.0	10	459.0	10	299.0	10	248.0	10	237.0	10	202.0	10	155.0
1947	11200.0	4	7480.0	4	4890.0	4	2680.0	4	1650.0	5	1630.0	3	1260.0	2	1030.0	2	712.0	4	422.0
1948	14800.0	3	12000.0	3	6600.0	3	3590.0	3	1920.0	3	1610.0	4	1150.0	4	874.0	4	754.0	3	406.0
1949	26300.0	1	16200.0	2	11000.0	1	6570.0	1	5530.0	1	3440.0	1	2520.0	1	2190.0	1	1720.0	1	1120.0
1950	5060.0	8	3470.0	8	2910.0	7	1810.0	7	1090.0	7	649.0	7	457.0	8	364.0	8	290.0	7	271.0

## STATISTICS OF ANNUAL DISCHARGE FOR WATER YEARS, 1941-50

Units of annual Discharge	Mean	Standard Deviation	Coefficient of Variation	Skew Coefficient	First Order Serial Correlation Coefficient
CFS	394	290	0.74	2.00	-0.19
LOGS of CFS	2.512	0.271		0.655	-0.259

## ARKANSAS RIVER BASIN

07150500 SALT FORK ARKANSAS RIVER NEAR JET, OKLA.

LOCATION.--Lat 36°45'11", long 98°07'44", in NE 1/4 NE 1/4 sec.11, T.26 N., R.9 W., Alfalfa County, near center of span on downstream side of county road bridge, 0.6 mi (9.97 km) downstream from Great Salt Plains Dam, 4 mi (6.4 km) upstream from Wagon Creek, 6 mi (9.7 km) northeast of Jet, and at mile 102.7 (165.2 km).

DRAINAGE AREA.--3,202 mi<sup>2</sup> (8,293 km<sup>2</sup>), of which 8 mi<sup>2</sup> (20.7 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD.--June 1941 to September 1974.

AVERAGE DISCHARGE.--33 years (1942-74), 376 ft<sup>3</sup>/s (283 m<sup>3</sup>/s).

REMARKS.--Flow regulated since June 1941 by Great Salt Plains Lake.

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

SALT FORK ARKANSAS RIVER NEAR JET, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	
YEAR	NUMBER OF DAYS IN CLASS																																			CFS_DAYS
1942														1	14	12	9	5	8	37	33	69	55	26	29	20	7	9	4	12	7	5	3		225272.0	
1943													14	60	48	14	5	7	22	34	43	40	21	24	10	9	5	5	2	2					68093.0	
1944	5						24			25	40	20	22	5	9	16	18	10	20	12	13	17	21	15	18	10	10	11	6	6	7	6			112935.0	
1945														4	32	3	3	2	18	15	23	64	57	38	30	27	20	8	12	7	2			171267.0		
1946															29	24	11	11	29	76	42	45	28	25	20	13	4	2	2	2	2			85805.0		
1947															39	17	7	27	72	28	18	19	34	16	17	16	14	9	14	12	3	3		176305.0		
1948														24	9	38	34	75	13	18	16	23	16	9	16	12	19	14	13	6	7	4		180578.0		
1949														21	4	2	3	1		2	20	19	33	32	42	55	27	18	19	14	25	19	9		521592.5	
1950														1	11	7	5	6	10	27	24	85	103	39	17	14	3	1	3	3	6			127412.0		
1951																5	16	18	34	41	61	34	31	23	8	7	12	13	15	6	11	19	11		387930.0	
1952																6	16	32	43	7	2	2	39	74	74	39	6	9	6	5	6			130541.0		
1953																	15	10	4	5	8	8	4	3	6	1								13866.1		
1954		1			8	7	14	16	20	11	36	39	24	32	63	26	10	7	6	6	7	15	6	1	2	3	3	2						18993.9		
1955	8	18	20		39	33	34	13	23	7	27	15	27	18	8	5	1	2	2	5	3	8	8	10	9	8	3	1	3	3	4			56249.5		
1956	1			3	7	17	16	45	17	57	66	37	18	7	11	1	21	8	7	5	1	2	3	3	8	2	2	2						13457.7		
1957		2		1			4	29	23	76	54	30	9	2	1	3	2	2	2	1	5	3	8	8	12	13	11	12	16	12	12	12		350203.7		
1958														13	8	3	7	10	3	7	24	63	47	53	68	30	8	4	4	7	3	3		128373.6		
1959										1	7	48	22	10	5	13	36	36	46	37	28	19	23	15	9	3	1	3	3					67455.6		
1960																1	1	2	2	6	24	78	69	56	32	22	36	16	9	6	4	2		217565.0		
1961															1	5	5	4	7	8	16	30	75	64	39	56	26	11	5	5	7	1		154136.0		
1962														9	15	5	3	5	5	13	11	20	24	64	55	71	35	14	6	5	5		110668.9			
1963														16	13	2	9	15	28	41	46	59	47	32	24	7	7	6	3	1	3	2	4		75372.0	
1964										7	54	41	26	15	23	30	23	27	43	38	25	12	2											15881.2		
1965										3	25	12	7	3	2	5	2	12	7	17	46	65	45	44	17	12	16	10	7	8				137821.1		
1966														57	18	15	15	11	11	19	18	37	57	38	24	28	17						46391.7			
1967																																			24324.2	
1968																																			52325.3	
1969																																			133781.1	
1970																																			65640.0	
1971																																			29694.4	
1972																																			48172.5	
1973																																			323838.7	
1974																																			245750.1	

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	14	12053	100.0	9	2.30	215	11438	94.9	18	54.0	562	7555	62.7	27	1300	198	751	6.2
1	0.10	19	12039	99.9	10	3.30	444	11223	93.1	19	77.0	791	6993	58.0	28	1800	172	553	4.5
2	0.20	22	12020	99.7	11	4.70	522	10779	89.4	20	110.0	867	6202	51.5	29	2500	144	381	3.1
3	0.30	0	11998	99.5	12	6.60	432	10257	85.1	21	150.0	1162	5335	44.3	30	3600	118	237	1.9
4	0.40	51	11998	99.5	13	9.40	423	9825	81.5	22	220.0	1074	4173	34.6	31	5100	75	119	.9
5	0.60	52	11947	99.1	14	13.00	536	9402	78.0	23	310.0	942	3099	25.7	32	7300	42	44	.3
6	0.80	130	11895	98.7	15	19.00	406	8866	73.6	24	440.0	698	2157	17.9	33	10000	2	2	.0
7	1.20	111	11765	97.6	16	27.00	366	8460	70.2	25	630.0	407	1459	12.1	34				
8	1.60	216	11654	96.7	17	38.00	539	8094	67.2	26	890.0	301	1052	8.7					



LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## SALT FORK ARKANSAS RIVER NEAR JET, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1943	8.00 22	8.33 22	8.71 21	9.43 22	19.10 24	106.00 27	121.00 23	115.00 21	266.00 25	406.00 22
1944	0.00 1	0.00 1	0.29 2	0.64 2	1.17 3	2.33 5	2.58 5	2.91 3	5.37 5	70.50 5
1945	12.00 27	13.00 26	13.70 25	16.90 26	29.70 27	42.10 17	103.00 21	117.00 22	163.00 20	445.00 23
1946	10.00 24	12.00 24	12.10 24	12.90 24	14.50 21	43.70 19	124.00 24	141.00 24	328.00 30	477.00 25
1947	13.00 28	13.70 27	14.10 26	14.40 25	14.80 22	15.60 14	24.00 13	34.80 14	47.60 12	171.00 9
1948	22.00 29	23.70 29	24.10 29	24.50 28	25.30 26	26.90 15	31.10 15	34.00 13	41.20 11	512.00 27
1949	9.50 23	9.50 23	9.50 23	10.00 23	13.10 18	54.80 22	189.00 28	228.00 29	612.00 31	757.00 28
1950	101.00 32	105.00 32	116.00 32	152.00 32	198.00 32	229.00 31	236.00 30	239.00 30	273.00 26	1170.00 32
1951	12.00 25	12.70 25	14.10 27	20.10 27	31.30 28	49.40 20	67.60 18	76.70 17	111.00 17	268.00 16
1952	51.00 31	53.70 31	65.60 31	86.60 30	175.00 31	236.00 32	246.00 31	273.00 31	312.00 28	1160.00 31
1953	5.50 19	6.93 21	8.83 22	8.98 21	9.80 15	11.00 13	11.70 10	12.10 8	14.10 7	210.00 14
1954	0.10 4	0.43 3	0.54 3	0.68 3	1.14 2	1.50 4	2.09 3	3.56 5	4.78 4	32.10 3
1955	0.00 2	0.03 2	0.07 1	0.12 1	0.35 1	0.57 1	0.70 1	0.83 1	1.98 1	49.40 4
1956	0.20 5	0.53 4	0.83 4	0.90 4	1.18 4	1.46 3	2.55 4	6.30 7	60.40 14	183.00 11
1957	0.00 3	0.67 5	1.86 8	2.16 7	2.66 7	2.87 6	2.92 6	3.18 4	3.43 3	8.42 1
1958	2.00 12	3.60 15	5.09 15	5.80 13	8.33 14	140.00 28	141.00 26	166.00 26	214.00 22	1070.00 30
1959	4.10 16	5.50 18	6.56 19	6.74 17	10.90 17	35.40 16	40.40 16	45.30 15	55.40 13	283.00 17
1960	6.90 21	6.90 20	7.19 20	7.74 20	9.82 16	10.50 12	28.70 14	92.10 19	275.00 27	486.00 26
1961	26.00 30	40.00 30	65.30 30	106.00 31	149.00 30	188.00 30	199.00 29	201.00 28	232.00 24	376.00 20
1962	12.00 26	14.70 28	20.30 28	36.10 29	99.60 29	160.00 29	279.00 32	285.00 32	317.00 29	451.00 24
1963	5.00 17	5.13 16	5.36 16	6.93 18	14.30 20	75.10 23	84.00 19	77.20 18	91.50 16	191.00 12
1964	2.30 14	2.30 12	3.00 11	3.61 12	4.28 11	8.68 10	11.20 9	19.20 9	39.00 10	181.00 10
1965	2.30 15	2.73 13	3.19 12	3.29 10	3.66 9	7.38 9	23.40 12	19.40 10	34.00 9	158.00 8
1966	6.00 20	6.33 19	6.50 18	7.42 19	24.60 25	104.00 25	151.00 27	173.00 27	214.00 23	351.00 19
1967	0.70 6	0.97 8	1.09 6	1.11 6	1.20 5	1.35 2	1.44 2	1.84 2	3.00 2	21.50 2
1968	0.94 9	1.56 10	2.56 10	3.49 11	4.84 12	9.67 11	15.20 11	21.10 12	32.00 8	83.40 6
1969	1.50 11	2.83 14	3.79 14	5.91 15	15.20 23	104.00 26	136.00 25	161.00 25	212.00 21	234.00 15
1970	5.10 18	5.27 17	5.44 17	5.86 14	6.68 13	54.00 21	111.00 22	115.00 20	141.00 19	327.00 18
1971	0.98 10	1.50 9	1.91 9	2.49 8	2.99 8	3.47 7	4.19 7	4.49 6	8.73 6	202.00 13
1972	0.74 7	0.80 6	1.70 7	2.71 9	3.72 10	4.43 8	5.64 8	20.60 11	78.00 15	103.00 7
1973	2.10 13	2.27 11	3.36 13	6.30 16	13.80 19	43.40 18	57.40 17	72.80 16	116.00 18	395.00 21
1974	0.76 8	0.88 7	0.98 5	1.07 5	2.09 6	83.20 24	94.60 20	119.00 23	675.00 32	1030.00 29

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## SALT FORK ARKANSAS RIVER NEAR JET, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1942	8280.0 6	8070.0 5	7130.0 5	5370.0 5	3210.0 5	1780.0 7	1240.0 8	981.0 8	804.0 8	617.0 6
1943	2590.0 22	2510.0 22	2020.0 22	1280.0 23	922.0 22	567.0 22	407.0 23	347.0 23	268.0 24	187.0 22
1944	4680.0 11	4370.0 12	4020.0 10	3360.0 8	2440.0 8	1550.0 9	1110.0 9	854.0 10	602.0 11	309.0 17
1945	4530.0 13	3290.0 20	2790.0 19	2540.0 13	1950.0 10	1220.0 10	1010.0 10	884.0 9	682.0 10	469.0 10
1946	4250.0 16	3770.0 15	2870.0 17	1830.0 20	1170.0 19	644.0 21	460.0 21	391.0 21	322.0 21	235.0 20
1947	5880.0 8	5460.0 8	4520.0 9	3250.0 9	2120.0 9	2020.0 5	1570.0 5	1280.0 5	876.0 7	483.0 9
1948	6820.0 7	6460.0 7	5560.0 7	3960.0 7	2400.0 6	1880.0 6	1400.0 6	1050.0 7	913.0 6	493.0 8
1949	8760.0 4	8690.0 4	8290.0 4	7260.0 3	6430.0 1	4420.0 3	3210.0 3	2600.0 3	2240.0 1	1430.0 1
1950	4320.0 15	4240.0 13	3990.0 11	2940.0 11	1770.0 12	1060.0 12	733.0 15	577.0 16	425.0 17	349.0 16
1951	9440.0 3	9230.0 3	8720.0 2	7950.0 1	6310.0 2	4800.0 1	3660.0 2	2860.0 1	2010.0 2	1060.0 2
1952	3520.0 20	3390.0 17	2970.0 15	2380.0 16	1590.0 15	1080.0 11	856.0 11	716.0 11	551.0 13	357.0 14
1953	718.0 30	648.0 31	547.0 31	384.0 32	214.0 32	121.0 32	97.1 32	80.5 33	63.8 32	38.0 32
1954	1440.0 26	1350.0 25	1100.0 25	709.0 25	417.0 28	265.0 29	184.0 29	142.0 30	97.5 30	52.0 30
1955	4540.0 12	4390.0 11	3690.0 13	2440.0 14	1450.0 16	891.0 16	597.0 19	463.0 20	306.0 22	154.0 24
1956	1460.0 25	1320.0 26	1030.0 26	609.0 26	314.0 31	160.0 31	107.0 31	80.9 32	60.4 33	36.8 33
1957	9820.0 2	9450.0 2	8500.0 3	6920.0 3	4820.0 4	4780.0 2	3680.0 1	2810.0 2	1910.0 3	959.0 3
1958	4340.0 14	4160.0 14	3380.0 14	2710.0 12	1750.0 13	1000.0 15	747.0 13	680.0 13	536.0 14	352.0 15
1959	3400.0 21	3220.0 21	2350.0 21	1100.0 24	615.0 24	452.0 24	390.0 24	330.0 24	275.0 23	185.0 23
1960	5670.0 9	5300.0 9	4570.0 8	3150.0 10	1890.0 11	1050.0 13	769.0 12	642.0 14	696.0 9	594.0 7
1961	3700.0 17	3420.0 16	2860.0 18	1860.0 18	1130.0 20	857.0 17	728.0 16	700.0 12	599.0 12	422.0 11
1962	2340.0 23	2240.0 23	1950.0 23	1520.0 21	917.0 23	542.0 23	440.0 22	372.0 22	339.0 19	303.0 18
1963	4870.0 10	4610.0 10	3800.0 12	2390.0 15	1320.0 17	760.0 19	577.0 20	468.0 19	322.0 20	206.0 21
1964	252.0 33	225.0 33	174.0 33	132.0 33	98.4 33	86.7 33	80.1 33	81.9 31	68.9 31	43.4 31
1965	3540.0 19	3330.0 19	2910.0 16	2230.0 17	1650.0 14	1050.0 14	738.0 14	619.0 15	486.0 16	378.0 12
1966	606.0 32	581.0 32	538.0 32	426.0 31	387.0 29	271.0 27	261.0 26	220.0 26	214.0 26	127.0 27
1967	748.0 29	727.0 28	707.0 27	587.0 27	501.0 25	325.0 26	237.0 27	181.0 28	130.0 29	66.6 29
1968	786.0 27	756.0 27	645.0 28	550.0 28	479.0 26	333.0 25	270.0 25	262.0 25	249.0 25	143.0 25
1969	1870.0 24	1620.0 24	1560.0 24	1390.0 22	1110.0 21	764.0 18	632.0 18	556.0 17	513.0 15	367.0 13
1970	3640.0 18	3370.0 18	2740.0 20	1840.0 19	1190.0 18	740.0 20	662.0 17	533.0 18	388.0 18	235.0 19
1971	755.0 28	716.0 29	619.0 29	496.0 29	346.0 30	202.0 30	165.0 30	177.0 29	150.0 27	81.4 28
1972	666.0 31	655.0 30	580.0 30	489.0 30	445.0 27	268.0 28	227.0 28	184.0 27	146.0 28	132.0 26
1973	10500.0 1	10200.0 1	9130.0 1	7300.0 2	5240.0 3	4150.0 4	3010.0 4	2390.0 4	1660.0 4	887.0 4
1974	8480.0 5	8040.0 6	6870.0 6	4660.0 6	3020.0 6	1750.0 8	1330.0 7	1090.0 6	934.0 5	673.0 5



## ARKANSAS RIVER BASIN

## 07151000 SALT FORK ARKANSAS RIVER AT TONKAWA, OKLA.

LOCATION.--Lat 36°40'13", long 97°18'33", in NW 1/4 SE 1/4 sec.4, T.25 N., R.1 W., Kay County, near right bank on downstream side of pier of bridge on U.S. Highway 77 in Tonkawa, 4 mi (6.4 km) downstream from Thompson Creek, 7.8 mi (12.6 km) upstream from Chikaskia River, and at mile 33.8 (34.4 km).

DRAINAGE AREA.--4,528 mi<sup>2</sup> (11,72 km<sup>2</sup>) of which 8 mi<sup>2</sup> (20.7 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD.--October 1935 to September 1974. Statistical summaries for this station are divided into unregulated and regulated periods.

AVERAGE DISCHARGE.--5 years (1936-40), 393 ft<sup>3</sup>/s (11.1 m<sup>3</sup>/s); 33 years (1942-74), 731 ft<sup>3</sup>/s (20.7 m<sup>3</sup>/s).

REMARKS.--Some regulation since June 1941 by Great Salt Plains Lake, 69.5 mi (111.8 km) upstream.

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

## SALT FORK ARKANSAS RIVER AT TONKAWA, OKLAHOMA

CLASS 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34

YEAR	NUMBER OF DAYS IN CLASS																																CFS-DAYS		
1936	7	10	15	7	3	4	16	4	16	20	12	45	24	36	25	14	9	6	35	39	6	5	1	2	1	1							79671.5		
1937						4	2	4	22	9	25	50	45	42	37	41	10	8	13	8	4	12	4	6	2	3	2	3	3	3	2	1		156360.0	
1938												30	59	55	27	12	19	31	25	15	14	21	9	9	6	8	7	2	3	1	7	2	1	1	357253.0
1939			11	7	5	3	7	2	3	10	11	39	11	28	69	58	29	17	9	15	7	8	4	5	2	1	2							88618.0	
1940		5	14	14	13	24	47	17	20	23	20	25	24	27	23	16	12	11	6	7	7	4	3	4											35006.3
1941			4	4	2	4	7	3	31	17	30	25	42	39	24	39	11	14	12	7	13	8	9	5	2	3	5	2	2		1				115004.6

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	7	2192	100.0	9	19.00	79	1831	83.5	18	270.0	100	446	20.3	27	3800	7	40	1.8					
1	1.80	15	2185	99.7	10	25.00	98	1752	79.9	19	360.0	91	346	15.8	28	5100	10	33	1.5					
2	2.40	44	2170	99.0	11	34.00	214	1654	75.5	20	480.0	51	255	11.6	29	6800	6	23	1.0					
3	3.20	32	2126	97.0	12	46.00	205	1440	65.7	21	650.0	58	204	9.3	30	9100	10	17	.7					
4	4.40	23	2094	95.5	13	61.00	227	1235	56.3	22	870.0	30	146	6.7	31	12000	4	7	.3					
5	5.80	39	2071	94.5	14	82.00	205	1008	46.0	23	1200.0	31	116	5.3	32	16000	1	3	.1					
6	7.80	79	2032	92.7	15	110.00	180	803	36.6	24	1600.0	13	85	3.9	33	22000	1	2	.0					
7	11.00	30	1953	89.1	16	150.00	90	623	28.4	25	2100.0	16	72	3.3	34	30000	1	1	.0					
8	14.00	92	1923	87.7	17	200.00	87	533	24.3	26	2800.0	16	56	2.6										

## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## SALT FORK ARKANSAS RIVER AT TONKAWA, OKLAHOMA

YEAR	1		3		7		14		30		60		90		120		183		ANNUAL	
1937	1.00	1	1.17	1	1.57	1	1.82	1	2.42	1	4.31	1	28.30	2	76.50	3	159.00	5	213.00	3
1938	6.00	4	6.33	4	7.71	4	12.30	4	24.50	4	50.40	4	51.10	3	56.00	2	96.70	3	296.00	4
1939	33.00	5	34.00	5	35.10	5	35.50	5	38.40	5	107.00	5	118.00	5	118.00	5	146.00	4	1010.00	5
1940	2.20	3	2.40	3	2.60	3	2.86	2	3.69	2	4.75	2	6.26	1	6.75	1	13.10	1	176.00	2
1941	1.80	2	2.07	2	2.46	2	7.83	3	17.40	3	42.10	3	80.40	4	80.30	4	92.40	2	133.00	1

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## SALT FORK ARKANSAS RIVER AT TONKAWA, OKLAHOMA

YEAR	1		3		7		15		30		60		90		120		183		ANNUAL
1936	8570.0	5	7460.0	3	3930.0	4	2160.0	3	1250.0	4	652.0	5	442.0	5	350.0	5	284.0	5	218.0
1937	13500.0	2	9270.0	2	6010.0	2	3780.0	2	2360.0	2	1280.0	3	902.0	3	1020.0	2	689.0	2	428.0
1938	37300.0	1	22100.0	1	18400.0	1	11500.0	1	7540.0	1	4570.0	1	3220.0	1	2680.0	1	1860.0	1	1179.0
1939	12700.0	3	7440.0	4	4000.0	3	2150.0	4	1250.0	5	781.0	4	614.0	4	510.0	4	380.0	4	243.0
1940	1530.0	6	1180.0	6	809.0	6	455.0	6	418.0	6	307.0	6	236.0	6	208.0	6	167.0	6	95.6
1941	10500.0	4	6310.0	5	3510.0	5	1950.0	5	1770.0	3	1430.0	2	1020.0	2	798.0	3	563.0	3	315.0

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

SALT FORK ARKANSAS RIVER AT TONKAWA, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34		
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS		
1942																																					
1943																																					
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1972																																					
1973																																					
1974																																					

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	46	12053	100.0	9	3.50	81	11850	98.3	18	130.0	1077	7123	59.1	27	4500	173	421	3.4
1	0.10	2	12007	99.6	10	5.20	119	11769	97.6	19	190.0	1145	6046	50.2	28	6700	136	248	2.0
2	0.20	4	12005	99.6	11	7.80	253	11650	96.7	20	280.0	1256	4901	40.7	29	10000	58	112	.9
3	0.30	12	12001	99.6	12	12.00	249	11397	94.6	21	410.0	1060	3645	30.2	30	15000	44	54	.4
4	0.50	14	11989	99.5	13	17.00	533	11148	92.5	22	620.0	770	2585	21.4	31	22000	7	10	.0
5	0.70	16	11975	99.4	14	26.00	609	10615	88.1	23	920.0	523	1815	15.1	32	33000	1	1	.0
6	1.10	16	11959	99.2	15	38.00	895	10006	83.0	24	1400.0	339	1292	10.7	33	49000	2	2	.0
7	1.60	16	11943	99.1	16	57.00	921	9111	75.6	25	2000.0	299	953	7.9	34				
8	2.40	77	11927	99.0	17	85.00	1067	8190	67.9	26	3000.0	233	654	5.4					

## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## SALT FORK ARKANSAS RIVER AT TONKAWA, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1943	55.00 27	60.00 28	61.40 28	68.10 26	79.50 23	183.00 26	238.00 26	244.00 23	386.00 24	835.00 22
1944	15.00 8	16.70 8	16.90 8	19.60 8	21.00 8	23.60 6	27.50 6	35.70 5	40.20 5	265.00 9
1945	32.00 19	34.70 19	44.10 20	63.30 24	154.00 28	179.00 25	289.00 29	325.00 28	572.00 28	1010.00 25
1946	39.00 21	39.30 21	41.00 19	43.40 19	52.40 18	122.00 20	175.00 21	207.00 21	535.00 27	956.00 24
1947	18.00 11	19.00 11	19.70 10	21.80 9	24.90 9	35.00 10	45.60 9	51.00 9	76.10 10	214.00 6
1948	25.00 14	31.70 17	39.70 18	41.90 17	49.70 17	53.90 13	56.90 12	60.10 10	62.50 7	898.00 23
1949	20.00 12	21.30 12	23.40 12	29.70 14	55.40 19	176.00 24	415.00 31	436.00 31	1070.00 31	1430.00 28
1950	157.00 32	180.00 32	196.00 32	210.00 32	228.00 29	258.00 30	282.00 28	290.00 26	339.00 22	1690.00 29
1951	44.00 24	52.00 25	57.70 26	82.40 27	85.70 24	94.60 16	113.00 17	120.00 16	173.00 14	482.00 15
1952	139.00 31	152.00 31	166.00 31	206.00 31	309.00 31	337.00 31	349.00 30	406.00 30	473.00 26	1940.00 30
1953	25.00 15	25.70 14	26.70 14	27.20 13	27.50 10	29.90 9	35.30 8	36.20 6	37.80 4	311.00 11
1954	4.00 4	4.33 4	4.71 3	4.86 3	6.98 3	15.10 4	21.00 5	42.90 8	45.10 6	107.00 4
1955	0.40 2	0.40 2	0.46 2	0.55 2	1.00 2	3.99 2	5.50 2	7.61 2	9.60 2	74.00 3
1956	2.00 3	3.10 3	5.64 4	7.89 5	10.70 6	17.10 5	20.90 4	24.40 4	296.00 21	423.00 13
1957	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.17 1	1.11 1	2.52 1	5.56 1	14.40 1
1958	29.00 18	32.30 18	46.40 22	101.00 28	118.00 27	213.00 27	224.00 24	281.00 25	356.00 23	2040.00 31
1959	55.00 28	55.70 26	56.30 25	57.10 22	63.00 21	93.90 15	98.90 14	106.00 14	123.00 12	491.00 16
1960	37.00 20	37.00 20	37.30 17	41.90 18	48.00 16	90.70 14	190.00 22	336.00 29	695.00 29	1150.00 26
1961	116.00 30	119.00 30	138.00 30	179.00 30	251.00 30	257.00 29	281.00 27	304.00 27	461.00 25	789.00 20
1962	98.00 29	100.00 29	107.00 29	167.00 29	342.00 32	457.00 32	565.00 32	592.00 32	978.00 30	1180.00 27
1963	40.00 22	41.30 22	44.60 21	48.60 20	56.90 20	96.60 18	105.00 15	107.00 15	130.00 13	291.00 10
1964	26.00 16	27.30 15	28.00 15	30.60 15	37.80 14	39.00 11	48.00 10	63.50 11	79.70 11	252.00 8
1965	5.10 5	5.10 5	6.30 5	7.26 4	9.01 4	25.10 7	87.70 13	101.00 13	179.00 15	577.00 18
1966	44.00 25	46.00 24	47.70 23	54.10 21	92.60 26	159.00 22	165.00 20	186.00 20	224.00 19	478.00 14
1967	5.90 6	7.03 6	7.76 6	8.81 6	9.74 5	10.50 3	12.10 3	14.10 3	15.40 3	46.80 2
1968	7.60 7	7.97 7	8.59 7	9.73 7	14.60 7	25.30 8	32.50 7	37.40 7	65.60 8	182.00 5
1969	16.00 9	17.00 9	19.30 9	25.10 12	37.00 13	160.00 23	210.00 23	240.00 22	294.00 20	422.00 12
1970	41.00 23	41.70 23	49.30 24	64.00 25	72.30 22	156.00 21	160.00 19	163.00 17	197.00 16	746.00 19
1971	28.00 17	28.70 16	29.40 16	32.40 16	36.40 12	42.30 12	54.40 11	65.80 12	69.10 9	525.00 17
1972	17.00 10	18.30 10	20.40 11	23.20 10	34.40 11	95.40 17	122.00 18	174.00 19	222.00 18	251.00 7
1973	21.00 13	22.70 13	23.70 13	24.40 11	45.40 15	117.00 19	107.00 16	169.00 18	212.00 17	797.00 21
1974	55.00 26	57.30 27	57.90 27	63.10 23	87.60 25	246.00 28	238.00 25	272.00 24	1530.00 32	2310.00 32

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## SALT FORK ARKANSAS RIVER AT TONKAWA, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1942	12700.0 15	10200.0 16	8520.0 13	6260.0 12	3790.0 13	2300.0 12	2180.0 8	1740.0 9	1280.0 12	1090.0 8
1943	13600.0 14	11100.0 14	6130.0 17	3570.0 20	2010.0 20	1080.0 22	768.0 23	614.0 23	527.0 22	396.0 21
1944	16600.0 12	14300.0 11	9550.0 11	6550.0 8	4630.0 8	2770.0 10	2050.0 11	1590.0 11	1170.0 13	648.0 15
1945	21400.0 5	16100.0 9	10100.0 9	7140.0 7	5110.0 7	3030.0 8	2270.0 7	1920.0 7	1510.0 8	1150.0 7
1946	10400.0 18	7290.0 20	4740.0 22	2810.0 23	1720.0 22	961.0 23	679.0 25	574.0 25	464.0 24	333.0 22
1947	15000.0 13	13800.0 12	9840.0 10	6440.0 10	3930.0 11	3870.0 6	2910.0 6	2380.0 6	1610.0 6	865.0 10
1948	12500.0 16	11500.0 13	9330.0 12	6520.0 9	3950.0 9	2950.0 9	2160.0 9	1740.0 10	1410.0 9	761.0 13
1949	19200.0 10	18500.0 6	15600.0 5	12100.0 4	9520.0 4	6160.0 4	4560.0 4	4010.0 4	3650.0 2	2340.0 1
1950	7300.0 23	6810.0 21	6440.0 15	4550.0 14	2710.0 17	1760.0 17	1250.0 17	1080.0 18	791.0 18	565.0 17
1951	28600.0 2	21600.0 3	17100.0 3	14200.0 2	11200.0 1	8150.0 2	6090.0 2	4860.0 2	3410.0 3	1790.0 4
1952	5840.0 24	5290.0 24	4250.0 23	3130.0 22	2010.0 21	1490.0 20	1210.0 19	1020.0 19	787.0 19	524.0 19
1953	2660.0 29	2230.0 29	1980.0 28	1260.0 28	743.0 28	390.0 30	292.0 30	230.0 31	174.0 32	103.0 32
1954	2220.0 32	1950.0 31	1550.0 30	1030.0 29	588.0 31	379.0 31	274.0 31	214.0 33	148.0 33	95.5 33
1955	8250.0 22	6770.0 22	5420.0 19	3750.0 18	2240.0 19	1530.0 19	1080.0 20	816.0 20	550.0 21	282.0 23
1956	9640.0 19	8100.0 17	6050.0 18	3220.0 21	1670.0 23	852.0 25	575.0 26	435.0 26	296.0 28	156.0 29
1957	20000.0 8	18200.0 8	16500.0 4	13600.0 3	9580.0 2	8880.0 1	6920.0 1	5410.0 1	3690.0 1	1860.0 2
1958	5500.0 25	4590.0 25	3870.0 24	3710.0 19	2640.0 18	1730.0 18	1240.0 18	1100.0 17	932.0 17	603.0 16
1959	10400.0 17	7670.0 18	5260.0 20	2520.0 24	1670.0 24	1090.0 21	846.0 21	728.0 21	695.0 20	423.0 20
1960	26700.0 3	25500.0 2	17900.0 2	10300.0 5	5770.0 6	3060.0 7	2160.0 10	1750.0 8	1600.0 7	1350.0 6
1961	18000.0 11	10200.0 15	6440.0 16	4290.0 15	3070.0 15	2050.0 15	1670.0 15	1440.0 13	1390.0 10	929.0 9
1962	20600.0 6	15300.0 10	7970.0 14	4240.0 16	2760.0 16	1770.0 16	1410.0 16	1250.0 16	976.0 15	716.0 14
1963	4660.0 26	4280.0 26	3580.0 25	2320.0 25	1490.0 25	853.0 24	772.0 22	613.0 24	425.0 25	277.0 25
1964	2630.0 30	2040.0 30	1460.0 31	1020.0 30	660.0 30	347.0 32	252.0 32	231.0 30	146.0 31	137.0 31
1965	20400.0 7	18600.0 5	11600.0 7	6250.0 13	3950.0 10	2440.0 11	1770.0 14	1390.0 14	1030.0 14	847.0 11
1966	610.0 33	541.0 33	459.0 33	357.0 33	323.0 33	253.0 33	247.0 33	218.0 32	221.0 30	150.0 30
1967	4400.0 27	3500.0 27	2520.0 27	1600.0 27	1200.0 27	772.0 27	566.0 27	433.0 27	298.0 26	157.0 28
1968	5880.0 21	5950.0 23	3580.0 26	2000.0 26	1480.0 26	837.0 26	715.0 24	643.0 22	490.0 23	278.0 24
1969	9400.0 20	7660.0 19	5140.0 21	3870.0 17	3100.0 14	2220.0 13	1840.0 12	1560.0 12	1300.0 11	826.0 12
1970	19600.0 9	18400.0 7	11000.0 8	6280.0 11	3890.0 12	2190.0 14	1770.0 13	1380.0 15	958.0 16	556.0 18
1971	2370.0 31	1440.0 32	964.0 32	859.0 32	576.0 32	444.0 29	355.0 29	319.0 29	298.0 27	192.0 27
1972	4010.0 28	2900.0 28	1740.0 29	999.0 31	661.0 29	551.0 28	417.0 28	348.0 28	253.0 29	234.0 26
1973	22100.0 4	19700.0 4	14400.0 6	10200.0 6	8930.0 5	7700.0 3	5530.0 3	4400.0 3	3030.0 4	1690.0 5
1974	57800.0 1	46800.0 1	27600.0 1	15700.0 1	8940.0 4	4890.0 5	3650.0 5	2940.0 5	2620.0 5	1810.0 3

ARKANSAS RIVER BASIN

43

07151500 CHIKASKIA RIVER NEAR CORBIN, KANS.

LOCATION.--Lat 37°08', long 97°36', on west line of sec.36, T.33 S., R.3 W., near left bank on downstream side of pier of bridge on State Highway 49, 1.0 mi (1.6 km) upstream from Prairie Creek, 3.0 mi (4.8 km) west of Corbin, and at mile 67.5 (108.6 km).

DRAINAGE AREA.--794 mi<sup>2</sup> (2,056 km<sup>2</sup>).

PERIOD OF RECORD.--August 1950 to September 1965.

AVERAGE DISCHARGE.--15 years (1951-65), 220 ft<sup>3</sup>/s (6.23 m<sup>3</sup>/s).

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

CHIKASKIA RIVER NEAR CORBIN, KANSAS

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS	
1951																6	9	60	99	52	32	27	16	17	13	12		4	5	3	3	4	2	1		222232.0
1952										2	13	14	10	5	24	15	7	7	6	27	129	79	17	5	1	3	2									53324.2
1953	19	4		1	4	5	3	5	9	9	12	4	10	11	35	19	34	120	31	14	5	4	2	1	2	1	1								25936.0	
1954	74	4			6	6	8	2	4	10	3	2	4	14	21	52	116	16	8	5	5	2	2				1								14582.2	
1955	25	9	2		5	4	6	4	15	8	6	9	16	54	51	62	22	8	12	9	14	4	5	2	5	2		2	3			1			53674.7	
1956	76		1	1	1	5	5	1	2	2	3	5	9	16	13	57	127	25	6	3	3		1				1	1	1	1					23120.4	
1957	65										1	7	9	16	18	40	46	27	21	7	15	14	13	16	16	6	10	5	5	3		2	2	1	156485.0	
1958																	9	37	64	113	46	37	20	19	7	5	6	1	1						68799.0	
1959														9	9	13	27	55	80	76	36	22	10	13	4	2	4	3	2						58464.4	
1960															3	4	4	21	23	36	107	66	41	16	14	16	4	4	2	3		1	1			136492.0
1961																	3	20	23	89	102	49	31	15	11	7	8	4	1		1				106715.0	
1962															2	5	12	24	29	74	99	48	31	14	9	5	8	4		1					84471.0	
1963	3									2	1	2	3	8	10	19	18	33	83	105	51	15	4	2	2	2		1	1						38751.6	
1964	22			1	1		2	2	2	4	1	4		4	7	25	27	35	155	42	16	5	3	3	2	2	1								28119.4	
1965															7	25	14	16	10	19	87	74	38	22	13	11	8	9	1	2	5	2	1	1	134627.0	

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	284	5479	100.0	9	2.90	48	5061	92.4	18	83.0	812	2709	49.4	27	2400	22	65	1.1
1	0.10	17	5195	94.8	10	4.20	48	5013	91.5	19	120.0	758	1897	34.6	28	3500	19	43	.7
2	0.20	3	5178	94.5	11	6.10	46	4965	90.6	20	180.0	432	1139	20.8	29	5100	6	24	.4
3	0.30	3	5175	94.5	12	8.80	88	4919	89.8	21	260.0	229	707	12.9	30	7400	8	18	.3
4	0.40	17	5172	94.4	13	13.00	193	4831	88.2	22	370.0	142	478	8.7	31	11000	8	10	.1
5	0.60	20	5155	94.1	14	19.00	255	4638	84.7	23	540.0	97	336	6.1	32	16000	1	2	.0
6	0.90	24	5135	93.7	15	27.00	365	4383	80.0	24	790.0	76	239	4.4	33	23000	1	1	.0
7	1.40	14	5111	93.3	16	39.00	577	4018	73.3	25	1100.0	69	163	3.0	34				
8	2.00	36	5097	93.0	17	57.00	732	3441	62.8	26	1700.0	29	94	1.7					

## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## CHIKASKIA RIVER NEAR CORBIN, KANSAS

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1951	90.00 14	90.00 14	92.10 14	97.10 14	120.00 14	135.00 13	143.00 12	157.00 12	173.00 11	647.00 14
1952	2.30 7	2.73 7	3.07 7	4.33 6	4.77 5	12.50 5	19.50 4	23.80 4	31.60 4	91.70 5
1953	0.00 1	0.00 1	0.00 1	0.00 1	0.42 4	1.42 3	6.38 3	13.60 3	23.10 3	56.60 3
1954	0.00 2	0.00 2	0.00 2	0.00 2	0.00 1	0.08 2	0.43 2	3.07 2	4.68 2	30.70 2
1955	0.70 6	1.23 6	1.81 5	3.20 5	8.44 6	21.90 6	39.60 6	46.00 5	102.00 9	194.00 9
1956	0.00 3	0.00 3	0.00 3	0.00 3	0.00 2	0.00 1	0.00 1	0.00 1	1.43 1	15.00 1
1957	8.50 8	9.03 8	12.00 9	13.70 8	64.60 11	75.90 9	88.70 9	97.80 10	109.00 10	492.00 13
1958	23.00 12	26.00 12	32.60 12	40.00 12	44.60 9	56.40 7	57.10 7	63.60 7	74.30 7	157.00 7
1959	9.40 9	9.80 9	11.30 8	23.90 9	42.60 8	94.30 11	167.00 13	192.00 14	240.00 13	382.00 12
1960	16.00 11	17.30 11	27.90 11	35.00 11	72.20 12	119.00 12	131.00 11	147.00 11	187.00 12	211.00 10
1961	34.00 13	34.00 13	38.40 13	42.40 13	100.00 13	160.00 14	191.00 14	187.00 13	264.00 14	325.00 11
1962	14.00 10	16.30 10	20.90 10	28.50 10	57.70 10	90.90 10	94.20 10	95.30 9	102.00 8	150.00 6
1963	0.00 4	0.00 4	2.00 6	6.86 7	20.80 7	58.00 8	57.80 8	64.70 8	66.50 5	88.80 4
1964	0.00 5	0.00 5	0.00 4	0.00 4	0.39 3	9.76 4	38.50 5	57.60 6	73.30 6	185.00 8
1965										

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## CHIKASKIA RIVER NEAR CORBIN, KANSAS

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1951	25600.0 1	12900.0 1	7470.0 1	4100.0 1	2820.0 1	2610.0 1	1980.0 1	1540.0 1	1130.0 1	609.0 1
1952	1180.0 15	1080.0 12	769.0 11	522.0 11	360.0 11	294.0 10	258.0 10	237.0 10	203.0 10	146.0 10
1953	2120.0 12	816.0 14	445.0 14	238.0 15	210.0 13	141.0 13	124.0 13	109.0 13	105.0 13	71.1 13
1954	1460.0 13	774.0 15	444.0 15	242.0 14	173.0 15	111.0 15	90.1 15	79.2 15	66.2 15	40.0 15
1955	12400.0 5	5850.0 6	2720.0 6	1790.0 5	1430.0 4	790.0 5	540.0 6	410.0 6	280.0 6	147.0 9
1956	4090.0 7	3260.0 7	1680.0 7	841.0 10	444.0 10	243.0 11	178.0 11	144.0 11	112.0 11	63.2 14
1957	22900.0 2	12900.0 2	6950.0 2	3820.0 2	2290.0 2	2130.0 2	1580.0 2	1210.0 2	840.0 2	429.0 2
1958	3320.0 10	1770.0 10	1370.0 9	932.0 8	657.0 8	400.0 8	330.0 8	343.0 7	276.0 7	188.0 7
1959	3490.0 9	2150.0 9	1140.0 10	872.0 9	470.0 9	304.0 9	307.0 9	262.0 9	240.0 9	160.0 8
1960	15900.0 3	10300.0 3	5240.0 3	3170.0 3	1760.0 3	970.0 3	693.0 3	568.0 3	525.0 3	373.0 3
1961	12200.0 6	6530.0 5	3180.0 5	1670.0 6	961.0 6	636.0 6	551.0 5	479.0 5	389.0 5	292.0 5
1962	4030.0 8	2630.0 8	1640.0 8	959.0 7	677.0 7	434.0 7	345.0 7	329.0 8	265.0 8	231.0 6
1963	2920.0 11	1260.0 11	727.0 12	456.0 12	275.0 12	152.0 12	153.0 12	141.0 12	111.0 12	106.0 11
1964	1450.0 14	985.0 13	558.0 13	316.0 13	182.0 14	119.0 14	111.0 14	100.0 14	91.0 14	76.8 12
1965	15100.0 4	8120.0 4	3950.0 4	1990.0 4	1250.0 5	893.0 4	688.0 4	552.0 4	454.0 4	369.0 4

## STATISTICS OF ANNUAL DISCHARGE FOR WATER YEARS, 1951-65

Units of annual Discharge	Mean	Standard Deviation	Coefficient of Variation	Skew Coefficient	First Order Serial Correlation Coefficient
CFS	220	163	0.74	1.07	-0.04
LOGS of CFS	2.224	0.345		-0.143	0.102

## ARKANSAS RIVER BASIN

45

## 07152000 CHIKASKIA RIVER NEAR BLACKWELL, OKLA.

LOCATION.--Lat 36°48'31", long 97°16'39", in NE 1/4 NW 1/4 sec.23, T.27 N., R.1 W., Kay County, near left bank on downstream side of pier of St. Louis-San Francisco Railway Co. bridge at northeast edge of Blackwell, 0.2 mi (0.32 km) downstream from Bitter Creek, and at mile 28.2 (45.4 km).

DRAINAGE AREA.--1,859 mi<sup>2</sup> (4,815 km<sup>2</sup>).

PERIOD OF RECORD.--April 1936 to September 1974.

AVERAGE DISCHARGE.--38 years (1937-74), 490 ft<sup>3</sup>/s (13.9 m<sup>3</sup>/s).

REMARKS.--Some regulation at low flow by Lake Blackwell, capacity, 3,600 acre-ft (4.44 hm<sup>3</sup>), 12.6 mi (20.3 km) above station. Small diversion made from reservoir for municipal supply of city of Blackwell.

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

## CHIKASKIA RIVER NEAR BLACKWELL, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS	
1937						6		5	2	4	5	7	21	45	97	48	34	22	13	10	10	10	10	4	3	3	2	1	2	1						97010.0
1938													1	27	86	74	48	26	23	17	18	13	8	7	6	1	1	5	2	1	1					153020.0
1939													3	18	30	19	4	20	18	13	16	106	55	15	15	10	8	4	4	2					58080.0	
1940						9	5	13	11	36	24	54	13	33	29	29	34	22	23	10	5	5	2	4	2	1	2									28045.0
1941																																				72748.5
1942																																				25209.0
1943																																				102916.3
1944																																				254089.5
1945																																				322726.6
1946																																				83069.4
1947																																				250733.4
1948																																				266432.8
1949																																				425514.0
1950																																				137004.0
1951																																				530346.0
1952																																				92786.8
1953																																				39797.9
1954																																				25921.7
1955																																				112044.3
1956																																				61342.6
1957																																				357174.0
1958																																				153322.0
1959																																				170923.0
1960																																				332450.0
1961																																				239388.0
1962																																				195140.0
1963																																				67277.0
1964																																				69240.5
1965																																				352531.3
1966																																				35631.2
1967																																				57636.1
1968																																				123432.7
1969																																				241119.0
1970																																				160271.6
1971																																				58897.7
1972																																				55243.0
1973																																				413457.0
1974																																				351063.0

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	23	13879	100.0	9	3.70	183	13207	95.2	18	140.0	1585	5822	41.9	27	5000	117	273	1.9
1	0.10	11	13856	99.8	10	5.50	266	13024	93.8	19	200.0	1382	4237	30.5	28	7500	75	156	1.1
2	0.20	6	13845	99.8	11	8.20	193	12758	91.9	20	300.0	892	2855	20.6	29	11000	33	81	.5
3	0.30	41	13839	99.7	12	12.00	327	12565	90.5	21	450.0	559	1963	14.1	30	17000	26	48	.3
4	0.50	40	13798	99.4	13	18.00	471	12238	88.2	22	670.0	393	1404	10.1	31	25000	14	22	.1
5	0.70	105	13758	99.1	14	27.00	882	11767	84.8	23	1000.0	276	1011	7.3	32	37000	6	8	.0
6	1.10	143	13653	98.4	15	41.00	1168	10885	78.4	24	1500.0	187	735	5.3	33	55000	2	2	.0
7	1.60	163	13510	97.3	16	61.00	1705	9717	70.0	25	2200.0	147	548	3.9	34				
8	2.50	140	13347	96.2	17	91.00	2190	8012	57.7	26	3300.0	128	401	2.9					



## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## CHIKASKIA RIVER NEAR BLACKWELL, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1937	0.50 4	0.50 3	0.50 3	0.50 3	0.55 2	0.96 2	18.10 7	42.40 12	47.20 8	120.00 7
1938	1.00 10	1.00 10	1.29 7	8.71 17	16.10 15	32.90 13	36.40 12	38.00 11	47.90 10	254.00 15
1939	15.00 23	15.00 23	15.40 23	16.90 23	19.70 19	57.90 22	77.60 20	80.90 17	132.00 20	471.00 22
1940	1.00 11	1.17 11	1.36 8	2.07 7	2.83 6	3.69 5	4.45 3	4.45 3	7.57 3	92.70 4
1941	0.50 5	0.50 4	0.57 4	2.82 9	4.15 8	7.74 8	31.10 11	37.40 10	47.70 9	99.80 5
1942	3.40 15	3.67 15	3.81 15	5.06 11	14.80 14	50.70 18	57.80 15	98.90 21	248.00 26	316.00 16
1943	62.00 37	68.30 36	77.10 36	99.10 36	117.00 34	135.00 32	176.00 32	221.00 33	251.00 27	666.00 28
1944	0.70 7	0.73 7	2.36 12	4.76 10	5.24 9	5.80 7	13.80 5	19.50 6	31.90 5	229.00 14
1945	27.00 28	29.70 29	35.60 30	57.70 31	171.00 36	259.00 36	274.00 35	351.00 36	490.00 34	955.00 33
1946	3.80 17	4.30 17	6.64 19	8.82 18	19.00 18	62.50 23	139.00 30	174.00 31	358.00 33	691.00 30
1947	0.50 6	0.50 5	1.73 9	2.01 6	2.23 5	2.75 4	5.48 4	17.70 5	92.30 15	204.00 13
1948	5.30 19	5.50 18	5.83 17	6.06 13	7.03 11	12.50 9	20.20 9	29.20 7	62.70 11	701.00 31
1949	27.00 29	28.30 28	31.40 27	44.10 27	83.00 29	121.00 30	328.00 37	327.00 35	791.00 35	1190.00 36
1950	38.00 33	41.70 33	47.30 33	58.20 32	107.00 32	148.00 33	155.00 31	157.00 28	176.00 24	661.00 27
1951	37.00 32	38.30 31	46.90 32	53.40 30	90.20 30	93.80 27	102.00 23	101.00 22	122.00 19	354.00 18
1952	143.00 38	149.00 38	161.00 38	180.00 38	200.00 38	210.00 35	213.00 34	236.00 34	262.00 28	510.00 38
1953	6.70 21	6.83 21	6.87 20	7.04 14	7.38 12	15.30 11	27.00 10	32.50 8	43.00 6	160.00 8
1954	0.80 9	0.80 8	1.14 5	1.51 4	1.92 4	3.95 6	18.30 8	37.20 9	46.10 7	104.00 6
1955	0.03 1	0.00 1	0.00 1	0.26 2	0.65 3	1.18 3	2.60 2	2.65 2	7.11 2	45.70 3
1956	1.50 12	1.80 13	2.14 11	7.11 16	24.90 21	55.70 21	55.90 14	57.50 14	310.00 31	454.00 20
1957	0.00 2	0.00 2	0.10 2	0.21 1	0.33 1	0.52 1	0.68 1	0.97 1	1.36 1	17.00 1
1958	44.00 34	55.70 35	57.90 34	63.10 34	107.00 33	127.00 31	132.00 29	166.00 29	216.00 25	1120.00 35
1959	35.00 31	38.30 32	45.40 31	50.00 29	57.40 27	92.90 25	93.00 21	94.10 19	109.00 17	334.00 17
1960	23.00 26	23.70 26	26.00 25	62.90 33	95.20 31	271.00 37	306.00 36	437.00 38	819.00 37	1090.00 34
1961	46.00 35	50.70 34	58.40 35	86.60 35	118.00 35	171.00 34	197.00 33	218.00 32	321.00 32	398.00 19
1962	58.00 36	94.30 37	115.00 37	134.00 37	194.00 37	292.00 38	372.00 38	409.00 37	804.00 36	888.00 32
1963	25.00 27	27.00 27	34.60 29	44.40 28	76.20 28	107.00 29	112.00 26	109.00 24	116.00 18	190.00 12
1964	4.10 18	4.10 16	4.41 16	11.20 20	20.40 20	52.20 20	67.50 16	72.00 15	78.90 13	166.00 9
1965	1.60 13	1.77 12	1.91 10	1.99 5	3.56 7	21.00 12	73.70 17	108.00 23	271.00 30	687.00 29
1966	32.00 30	32.30 30	32.60 28	33.90 26	49.70 26	93.30 26	122.00 27	126.00 25	135.00 21	496.00 24
1967	0.50 3	0.60 6	1.17 6	2.51 8	5.52 10	14.10 10	15.60 6	16.70 4	23.00 4	44.00 2
1968	0.75 8	0.80 9	3.37 13	11.30 21	27.40 22	39.30 15	45.00 13	54.40 13	71.30 12	184.00 11
1969	3.50 16	5.60 19	8.44 21	9.76 19	18.20 17	47.70 17	131.00 28	168.00 30	268.00 29	477.00 23
1970	18.00 24	18.70 24	24.00 24	27.10 24	33.70 24	94.40 28	94.10 22	96.20 20	103.00 16	534.00 25
1971	8.60 22	8.67 22	9.09 22	12.10 22	30.90 23	42.80 16	77.10 19	81.60 18	140.00 22	463.00 21
1972	3.00 14	3.10 14	3.51 14	5.29 12	10.90 13	39.00 14	108.00 25	132.00 26	153.00 23	183.00 10
1973	5.90 20	6.10 20	6.39 18	7.08 15	17.00 16	51.30 19	75.70 18	75.90 16	87.60 14	566.00 26
1974	20.00 25	23.30 25	28.00 26	33.90 25	36.40 25	76.90 24	103.00 24	138.00 27	1060.00 38	1300.00 37

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## CHIKASKIA RIVER NEAR BLACKWELL, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1937	11800.0 22	5450.0 26	3970.0 25	2830.0 23	1890.0 23	1050.0 23	735.0 23	678.0 23	460.0 23	266.0 24
1938	22200.0 16	14300.0 16	9760.0 12	5210.0 12	3330.0 13	1940.0 14	1380.0 15	1120.0 14	789.0 17	419.0 19
1939	6610.0 30	3450.0 32	1670.0 33	858.0 33	478.0 35	351.0 33	316.0 33	291.0 32	219.0 33	159.0 32
1940	3180.0 36	2300.0 35	1480.0 34	777.0 34	498.0 33	288.0 34	218.0 36	178.0 36	134.0 37	76.6 37
1941	7910.0 27	4500.0 27	2400.0 28	1220.0 28	968.0 28	799.0 26	621.0 24	495.0 24	354.0 26	199.0 27
1942	69500.0 1	32200.0 3	15500.0 5	8110.0 5	4340.0 6	2550.0 11	2010.0 9	1550.0 11	1080.0 12	690.0 11
1943	9740.0 24	6520.0 24	3650.0 26	2690.0 25	1520.0 25	838.0 24	601.0 25	482.0 25	423.0 24	282.0 23
1944	55300.0 2	28500.0 6	14900.0 6	8230.0 4	5180.0 5	2940.0 6	2160.0 6	1730.0 7	1260.0 8	694.0 10
1945	25400.0 14	19600.0 10	10600.0 10	6060.0 9	3900.0 9	2300.0 12	1630.0 13	1340.0 13	1170.0 11	884.0 8
1946	8260.0 26	3950.0 30	2020.0 30	1120.0 30	666.0 30	435.0 31	370.0 31	335.0 31	296.0 29	228.0 26
1947	27700.0 12	18800.0 11	11200.0 9	5780.0 10	3370.0 12	2770.0 8	2190.0 5	1810.0 5	1240.0 9	687.0 12
1948	20100.0 18	16900.0 14	9080.0 14	4630.0 15	3780.0 11	3240.0 4	2260.0 4	1730.0 6	1350.0 7	728.0 9
1949	10600.0 23	8140.0 21	7250.0 17	5430.0 11	3840.0 10	2730.0 9	2080.0 7	2010.0 4	1770.0 3	1170.0 2
1950	7780.0 28	6970.0 22	4930.0 22	3170.0 21	2000.0 21	1380.0 19	988.0 21	800.0 22	573.0 22	375.0 20
1951	45100.0 5	30400.0 5	16500.0 3	9800.0 2	8680.0 1	6870.0 1	5140.0 1	3940.0 1	2770.0 1	1450.0 1
1952	5910.0 31	4500.0 28	2120.0 29	1080.0 31	645.0 31	619.0 28	529.0 28	459.0 26	374.0 25	254.0 25
1953	5540.0 32	2820.0 34	1310.0 35	626.0 36	490.0 34	251.0 36	222.0 35	191.0 35	173.0 35	109.0 35
1954	2760.0 37	1610.0 37	920.0 37	509.0 37	309.0 37	195.0 37	159.0 37	133.0 38	111.0 38	71.0 38
1955	30700.0 10	16400.0 15	7560.0 16	4160.0 17	2980.0 15	1670.0 15	1150.0 19	886.0 19	598.0 21	307.0 22
1956	13800.0 20	11500.0 19	6430.0 20	3110.0 22	1600.0 24	826.0 25	570.0 26	441.0 27	310.0 27	168.0 30
1957	34400.0 8	24500.0 7	13400.0 8	8030.0 6	5040.0 6	4690.0 2	3610.0 2	2800.0 2	1940.0 2	979.0 4
1958	8620.0 25	5490.0 25	4150.0 23	2730.0 24	1960.0 22	1090.0 22	829.0 22	884.0 20	676.0 19	420.0 18
1959	17300.0 19	10300.0 20	5350.0 21	4190.0 16	2170.0 20	1230.0 20	1310.0 16	1020.0 18	819.0 15	468.0 16
1960	43200.0 6	32000.0 4	18000.0 1	10200.0 1	5400.0 3	2880.0 7	2010.0 10	1590.0 9	1360.0 6	908.0 7
1961	28200.0 11	18300.0 12	9860.0 11	4940.0 13	2660.0 16	1570.0 18	1270.0 17	1070.0 17	969.0 14	656.0 14
1962	21000.0 17	13700.0 17	7150.0 18	3580.0 19	2590.0 17	1630.0 17	1250.0 18	1100.0 15	803.0 16	535.0 15
1963	12200.0 21	6820.0 23	3070.0 27	1480.0 27	774.0 29	499.0 30	422.0 29	358.0 29	255.0 31	184.0 29
1964	7230.0 29	4320.0 29	4090.0 24	2100.0 26	1190.0 26	616.0 29	416.0 30	355.0 30	301.0 28	189.0 28
1965	52700.0 3	32400.0 2	15500.0 4	7910.0 7	5230.0 4	2950.0 5	2040.0 8	1570.0 10	1180.0 10	966.0 5
1966	1080.0 38	790.0 38	472.0 38	291.0 38	203.0 38	166.0 38	151.0 38	141.0 37	135.0 36	97.6 36
1967	4750.0 34	3020.0 33	1970.0 31	1180.0 29	1010.0 27	779.0 27	533.0 27	418.0 28	289.0 30	158.0 33
1968	27100.0 13	17800.0 13	8480.0 15	4030.0 18	2180.0 19	1100.0 21	1060.0 20	864.0 21	598.0 20	337.0 21
1969	22400.0 15	13600.0 18	6570.0 19	3500.0 20	2300.0 18	2060.0 13	1640.0 12	1390.0 12	1020.0 13	661.0 13
1970	38800.0 7	20700.0 9	9680.0 13	4820.0 14	3010.0 14	1670.0 16	1380.0 14	1070.0 16	773.0 18	439.0 17
1971	4450.0 35	2250.0 36	998.0 36	629.0 35	397.0 36	265.0 35	260.0 34	232.0 34	229.0 32	161.0 31
1972	5390.0 33	3830.0 31	1860.0 32	969.0 32	605.0 32	411.0 32	318.0 32	269.0 33	206.0 34	151.0 34
1973	33900.0 9	24100.0 8	13600.0 7	6770.0 8	5700.0 2	3940.0 3	2820.0 3	2360.0 3	1630.0 4	1130.0 3
1974	48000.0 4	35900.0 1	16900.0 2	8310.0 3	4550.0 7	2620.0 10	1940.0 11	1620.0 8	1360.0 5	962.0 6

## MONTHLY DURATION TABLE

CHIKASKIA RIVER NEAR BLACKWELL, OKLAHOMA

PERIOD 1936-1974

CLASS LIMIT	TOTAL PERCENT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
0.00	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0.10	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	99.3	98.9	100.0	100.0
0.15	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.8	98.8	98.7	99.8	100.0
0.22	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.6	98.6	98.7	99.7	100.0
0.33	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	98.9	98.2	98.5	99.5	100.0
0.49	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	98.4	97.8	97.7	99.2	100.0
0.74	98.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	96.9	94.1	96.6	98.6	100.0
1.10	98.0	100.0	99.9	99.8	100.0	99.3	100.0	95.9	93.3	94.4	97.1	97.5	99.0
1.70	96.8	99.7	99.1	99.2	100.0	99.3	99.8	93.9	92.4	91.9	95.8	95.5	96.0
2.50	95.8	99.1	99.1	99.1	100.0	99.0	98.7	92.3	90.4	88.9	94.0	94.6	95.1
3.70	94.8	98.1	99.1	98.9	99.8	98.8	98.4	91.7	88.0	85.4	91.3	93.9	94.8
5.50	93.5	97.4	99.1	98.9	99.7	98.3	97.8	89.8	84.2	81.6	88.0	93.1	94.8
8.20	91.6	95.4	98.4	98.6	99.7	97.9	97.5	87.9	79.3	75.7	83.2	91.6	94.7
12.00	90.2	95.1	98.2	98.6	99.4	97.5	96.8	86.1	76.3	70.8	81.2	89.3	94.5
18.00	87.8	92.9	96.5	98.4	98.9	95.5	95.6	82.4	71.5	67.8	76.2	88.0	91.9
27.00	84.4	88.5	95.4	96.3	98.0	92.9	93.0	78.7	64.4	64.5	69.8	83.6	89.3
41.00	77.9	82.3	90.0	92.8	91.3	88.9	86.6	72.0	52.2	59.1	61.0	76.4	83.9
61.00	69.5	71.7	83.3	82.8	81.9	83.2	80.9	64.4	43.1	52.1	54.1	65.6	72.2
91.00	57.2	54.8	62.6	70.0	70.8	72.0	72.6	53.7	31.3	45.4	41.9	56.1	56.7
140.00	41.5	34.8	38.4	48.3	55.6	59.2	62.0	38.0	23.7	35.0	30.6	37.4	35.3
200.00	30.2	19.4	24.3	32.9	43.0	49.2	51.0	29.3	19.0	26.2	22.4	23.9	21.3
300.00	20.3	8.1	12.2	22.7	28.9	36.7	39.2	20.8	13.6	17.9	15.9	15.9	11.2
450.00	14.0	5.1	7.3	15.1	20.4	26.7	28.9	15.3	9.2	13.3	12.2	7.3	6.1
670.00	10.0	2.9	4.9	10.2	15.2	19.3	21.6	11.2	7.0	10.0	8.7	5.0	3.2
1000.00	7.2	2.1	3.4	6.9	11.5	14.5	15.9	7.9	5.4	7.6	5.9	2.9	2.0
1500.00	5.2	1.5	2.1	4.2	8.8	10.6	11.5	6.1	4.0	5.7	4.7	2.1	1.2
2200.00	3.9	1.2	2.1	3.0	6.4	7.7	8.7	4.5	2.6	4.4	3.7	1.7	0.7
3300.00	2.9	0.5	1.6	2.0	4.6	6.0	6.4	3.1	2.1	3.1	2.9	1.4	0.6
5000.00	2.0	0.3	1.3	1.1	3.1	4.4	4.1	2.1	1.3	2.2	2.2	1.0	0.3
7500.00	1.1	0.2	0.5	0.6	1.8	2.4	2.5	0.9	0.7	1.5	1.4	0.7	0.2
11000.00	0.6	0.0	0.0	0.3	1.0	1.2	1.1	0.7	0.3	0.7	0.8	0.4	0.2
17000.00	0.3	0.0	0.0	0.3	0.6	0.7	0.4	0.4	0.3	0.3	0.6	0.4	0.1
25000.00	0.2	0.0	0.0	0.1	0.4	0.4	0.2	0.2	0.1	0.1	0.3	0.1	0.0
37000.00	0.1	0.0	0.0	0.0	0.2	0.1	0.1	0.1	0.0	0.0	0.2	0.1	0.0
55000.00	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0

## STATISTICS OF ANNUAL DISCHARGE FOR WATER YEARS, 1937-74

Units of annual Discharge	Mean	Standard Deviation	Coefficient of Variation	Skew Coefficient	First Order Serial Correlation Coefficient
CFS	489	361	0.74	0.84	0.05
LOGS of CFS	2.560	0.359		-0.218	0.220

## ARKANSAS RIVER BASIN

07152500 ARKANSAS RIVER AT RALSTON, OKLA.

LOCATION.--Lat 36°30'09", long 96°43'22", in NW 1/4 sec.1, T.23 N., R.5 E., Osage County, near left bank on downstream side of pier of bridge on State Highway 18 at Ralston, 2 mi (3.2 km) downstream from Salt Creek, 2 mi (3.2 km) upstream from Grayhorse Creek, and at mile 594.0 (955.7 km).

DRAINAGE AREA.--54,465 mi<sup>2</sup> (141,064 km<sup>2</sup>), of which 7,615 mi<sup>2</sup> (19,723 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD.--October 1925 to September 1974. Statistical summaries for this station are divided into unregulated and regulated periods.

AVERAGE DISCHARGE.--17 years (1925-42), 3,565 ft<sup>3</sup>/s (101.0 m<sup>3</sup>/s); 31 years (1944-74), 5,376 ft<sup>3</sup>/s (152 m<sup>3</sup>/s).

REMARKS.--Some regulation by John Martin Reservoir in Colorado and Great Salt Plains Lake.

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

ARKANSAS RIVER AT RALSTON, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34		
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS		
1926								4	4	7	3	29	20	67	86	33	12	19	18	11	19	14	6	3	3	2	1									613300.0	
1927														1	14	25	23	33	37	31	41	19	16	22	16	12	16	11	8	13	5	4	4	7	5	2	3167120.0
1928														6	11	31	58	42	39	18	33	26	19	24	16	6	7	9	5	3	3	2	6	2	1906650.0		
1929														14	26	19	17	5	13	32	51	26	26	29	22	16	10	10	7	16	8	6	9	2	1	2880820.0	
1930									1	7	6	51	61	42	69	26	18	20	14	8	7	6	5	6	5	1	3	3	4	1	1				1001375.0		
1931					8	7	7	9	15	2	2	20	45	78	35	28	13	18	41	13	8	5	2	2	1	3	1	2							710290.0		
1932						14	19	10	7	10	23	23	41	37	48	38	36	10	5	7	11	8	7	6	3	1	1	1							868725.0		
1933						1	10	14	87	41	31	54	28	22	13	12	14	6	6	5	4	1	1	2	3	4	4	2							548590.0		
1934	24		17	5	5	3	8	24	44	76	44	29	18	12	11	11	11	5	5	3	2	2	1												400560.0		
1935						3	4	25	27	34	66	26	30	18	19	13	13	6	5	12	7	9	14	5	4	4	4	2	4	4	5	2			1676495.0		
1936		2		8	9	5	14	45	50	32	32	45	45	20	10	19	11	7	1	3	1	2	1	1			1	1	1					429735.0			
1937										21	32	32	45	49	46	23	24	18	13	16	6	6	4	5	9	7	2	3	2	2					1046990.0		
1938						3	2	53	48	38	16	26	16	13	38	20	16	11	14	7	5	7	8	9	3	4	2				1	2	3		1414005.0		
1939						1	8	8	6	29	50	95	51	24	14	24	14	15	5	3	6	4	2	2	4										593087.0		
1940						51	24	39	20	24	35	40	22	14	13	11	10	12	14	9	9	7	5	4	2		1								497559.0		
1941									3	32	10	4	5	27	46	62	28	21	21	23	23	13	11	10	6	9	2	2	2	1	2	2			1179934.0		
1942														5			3	14	51	69	36	36	26	30	14	14	14	25	6	6	6	6	1	3	3201140.0		

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	6209	100.0	9	390.00	301	5616	90.4	18	2800.0	389	1679	27.0	27	21000	61	193	3.1
1	65.00	24	6209	100.0	10	480.00	327	5315	85.6	19	3600.0	227	1290	20.8	28	26000	37	132	2.1
2	81.00	2	6185	99.6	11	600.00	575	4988	80.3	20	4400.0	194	1063	17.1	29	33000	27	95	1.5
3	100.00	17	6183	99.6	12	750.00	614	4413	71.1	21	5600.0	175	869	14.0	30	41000	33	68	1.0
4	130.00	21	6166	99.3	13	940.00	586	3799	61.2	22	6900.0	144	694	11.2	31	51000	17	35	.5
5	160.00	77	6145	99.0	14	1200.00	481	3213	51.7	23	8700.0	108	550	8.9	32	64000	13	18	.2
6	200.00	73	6068	97.7	15	1500.00	346	2732	44.0	24	11000.0	100	442	7.1	33	80000	3	5	.0
7	250.00	123	5995	96.6	16	1800.00	364	2386	38.4	25	14000.0	81	342	5.5	34	100000	2	2	.0
8	310.00	256	5872	94.6	17	2300.00	343	2022	32.6	26	17000.0	68	261	4.2					

## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## ARKANSAS RIVER AT RALSTON, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1927	170.00 5	170.00 5	191.00 5	252.00 6	390.00 9	911.00 13	1320.00 14	1360.00 13	2510.00 13	3830.00 10
1928	790.00 16	857.00 15	971.00 16	1080.00 16	1200.00 16	1300.00 15	1410.00 15	1490.00 14	2670.00 14	7490.00 16
1929	600.00 13	630.00 13	664.00 13	684.00 13	749.00 13	826.00 11	1100.00 12	1900.00 15	4410.00 15	6400.00 15
1930	690.00 14	690.00 14	690.00 14	700.00 14	763.00 14	958.00 14	1200.00 13	1160.00 11	1320.00 11	5970.00 14
1931	385.00 11	428.00 11	441.00 11	475.00 11	612.00 11	869.00 12	1020.00 11	1170.00 12	1190.00 9	2700.00 9
1932	155.00 3	155.00 3	160.00 3	170.00 3	213.00 3	420.00 6	378.00 3	504.00 3	1530.00 12	2390.00 7
1933	325.00 9	325.00 9	350.00 8	357.00 9	379.00 8	382.00 4	464.00 4	515.00 4	556.00 2	1610.00 5
1934	190.00 6	217.00 6	237.00 6	247.00 5	278.00 5	383.00 5	659.00 8	729.00 6	744.00 4	1580.00 4
1935	65.00 1	65.00 1	73.60 1	76.80 1	86.30 1	134.00 1	360.00 2	636.00 5	987.00 5	1290.00 2
1936	325.00 10	325.00 10	350.00 9	350.00 8	377.00 7	558.00 9	634.00 7	822.00 9	1060.00 8	4550.00 12
1937	90.00 2	103.00 2	119.00 2	147.00 2	228.00 4	363.00 3	497.00 5	809.00 7	1000.00 6	1400.00 3
1938	250.00 7	283.00 7	360.00 10	436.00 10	440.00 10	493.00 8	498.00 6	502.00 2	640.00 3	2440.00 8
1939	533.00 12	542.00 12	547.00 12	569.00 12	658.00 12	751.00 10	776.00 9	820.00 8	1020.00 7	4070.00 11
1940	169.00 4	169.00 4	172.00 4	177.00 4	190.00 2	226.00 2	233.00 1	230.00 1	313.00 1	1280.00 1
1941	298.00 8	301.00 8	315.00 7	324.00 7	326.00 6	442.00 7	817.00 10	906.00 10	1240.00 10	1850.00 6
1942	786.00 15	867.00 16	887.00 15	973.00 15	1060.00 15	1940.00 16	2300.00 16	3170.00 16	4810.00 16	5330.00 13

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## ARKANSAS RIVER AT RALSTON, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1926	28600.0 11	25400.0 10	18400.0 11	11000.0 11	6750.0 12	3920.0 13	2880.0 15	2810.0 13	2510.0 12	1680.0 12
1927	102000.0 1	91400.0 1	64700.0 1	42800.0 1	27300.0 2	17000.0 4	13600.0 4	12100.0 3	12500.0 1	8680.0 2
1928	65800.0 6	58100.0 6	43700.0 5	35600.0 5	25200.0 3	15700.0 6	12400.0 5	10600.0 5	7940.0 5	5210.0 4
1929	70300.0 5	59000.0 5	39900.0 6	26900.0 6	22200.0 6	18900.0 2	18000.0 2	15200.0 1	11200.0 3	7890.0 3
1930	45600.0 8	38700.0 8	30600.0 7	21600.0 7	13900.0 7	10000.0 7	7140.0 8	5610.0 9	4210.0 9	2740.0 9
1931	23900.0 14	17000.0 14	15500.0 12	9390.0 13	6280.0 13	5440.0 12	4710.0 10	3820.0 10	2860.0 10	1950.0 11
1932	32400.0 10	22900.0 12	15200.0 13	10800.0 12	8490.0 11	5550.0 11	4370.0 11	3570.0 11	2820.0 11	2370.0 10
1933	25100.0 13	23100.0 11	18800.0 10	16100.0 9	10200.0 10	5620.0 10	3880.0 12	3080.0 12	2420.0 13	1500.0 14
1934	11300.0 17	9540.0 17	6900.0 17	4770.0 17	3590.0 17	2740.0 17	2120.0 16	1750.0 16	1450.0 16	1100.0 17
1935	71200.0 4	61300.0 4	46200.0 4	38900.0 2	32300.0 1	21300.0 1	15200.0 3	11900.0 4	8050.0 4	4590.0 5
1936	26000.0 12	22600.0 13	14300.0 14	8080.0 14	4970.0 15	2920.0 16	2100.0 17	1700.0 17	1330.0 17	1170.0 16
1937	40300.0 9	32700.0 9	21700.0 9	15400.0 10	12200.0 8	8370.0 9	6340.0 9	5750.0 8	4250.0 8	2870.0 8
1938	75600.0 3	69400.0 3	57200.0 3	36100.0 4	23900.0 4	15900.0 5	11500.0 6	9730.0 6	7090.0 6	3870.0 6
1939	16800.0 16	15600.0 15	12000.0 15	7510.0 15	5370.0 14	3290.0 15	3040.0 14	2800.0 14	2310.0 15	1620.0 13
1940	20400.0 15	14500.0 16	10300.0 16	5730.0 16	4450.0 16	3800.0 14	3310.0 13	2680.0 15	2370.0 14	1360.0 15
1941	48600.0 7	41300.0 7	28600.0 8	16800.0 8	11900.0 9	9350.0 8	8430.0 7	6750.0 7	5180.0 7	3230.0 7
1942	90200.0 2	84500.0 2	59800.0 2	37100.0 3	23400.0 5	18200.0 3	18300.0 1	15000.0 2	12000.0 2	8770.0 1

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

## ARKANSAS RIVER AT RALSTON, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS
1944																																			2584087.0
1945																																			3003766.0
1946																																			1204845.0
1947																																			2197858.0
1948																																			2156902.0
1949																																			3685580.0
1950																																			2087170.0
1951																																			4661940.0
1952																																			1561579.0
1953																																			462987.0
1954																																			283127.0
1955																																			558543.0
1956																																			451917.0
1957																																			3155879.0
1958																																			2219610.0
1959																																			1438843.0
1960																																			3232810.0
1961																																			2771010.0
1962																																			2524890.0
1963																																			838075.0
1964																																			574348.0
1965																																			2764430.0
1966																																			659551.0
1967																																			854477.0
1968																																			1144437.0
1969																																			2616813.0
1970																																			1474711.0
1971																																			862600.0
1972																																			792567.0
1973																																			3742992.0
1974																																			4268500.0

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

## ARKANSAS RIVER AT RALSTON, OKLAHOMA

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	11323	100.0	9	140.00	110	11118	98.2	18	1800.0	1510	6670	58.9	27	23000	159	496	4.3
1	15.00	15	11323	100.0	10	190.00	124	11008	97.2	19	2400.0	1032	5160	45.6	28	30000	118	337	2.9
2	20.00	10	11308	99.9	11	250.00	201	10884	96.1	20	3200.0	909	4128	36.5	29	40000	67	219	1.9
3	26.00	9	11298	99.8	12	330.00	327	10683	94.3	21	4200.0	829	3219	28.4	30	53000	58	132	1.1
4	35.00	3	11289	99.7	13	440.00	416	10356	91.5	22	5600.0	610	2390	21.1	31	70000	32	74	.6
5	46.00	31	11286	99.7	14	580.00	584	9940	87.8	23	7400.0	464	1780	15.7	32	93000	29	42	.3
6	61.00	29	11255	99.4	15	770.00	636	9356	82.6	24	9800.0	310	1316	11.6	33	120000	11	13	.1
7	81.00	47	11226	99.1	16	1000.00	1022	8720	77.0	25	13000.0	276	1006	8.9	34	160000	2	2	.0
8	110.00	61	11179	98.7	17	1400.00	1028	7698	68.0	26	17000.0	234	730	6.4					



LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## ARKANSAS RIVER AT RALSTON, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1944	420.00 14	453.00 14	503.00 14	583.00 14	677.00 13	745.00 11	840.00 10	807.00 9	882.00 7	3780.00 12
1945	1180.00 29	1220.00 29	1320.00 28	1530.00 28	2260.00 29	2930.00 28	3350.00 28	4570.00 30	4810.00 25	9050.00 26
1946	558.00 17	577.00 17	604.00 16	660.00 15	911.00 15	1600.00 18	2460.00 25	2550.00 26	5650.00 27	7660.00 24
1947	273.00 9	276.00 9	283.00 9	305.00 9	354.00 8	425.00 6	491.00 5	686.00 7	1170.00 9	1820.00 6
1948	280.00 10	300.00 10	370.00 11	427.00 11	465.00 10	501.00 8	546.00 7	686.00 8	764.00 6	5920.00 21
1949	732.00 18	735.00 18	944.00 17	865.00 17	1250.00 22	2090.00 26	2590.00 26	2520.00 25	5930.00 28	9300.00 27
1950	1120.00 28	1180.00 28	1330.00 29	1570.00 29	1700.00 27	1800.00 21	1900.00 22	1880.00 18	2180.00 17	6810.00 23
1951	990.00 22	993.00 22	1070.00 22	1120.00 19	1170.00 17	1790.00 20	1810.00 19	1890.00 19	2400.00 20	5820.00 19
1952	2260.00 31	2260.00 31	2330.00 30	2530.00 30	3120.00 30	3530.00 30	3620.00 29	4260.00 28	5140.00 26	14100.00 31
1953	267.00 8	272.00 8	278.00 8	298.00 8	344.00 7	420.00 5	512.00 6	601.00 5	739.00 5	2150.00 7
1954	180.00 6	182.00 6	186.00 5	195.00 5	201.00 3	306.00 4	432.00 4	588.00 4	610.00 4	1150.00 4
1955	56.00 2	57.30 2	58.00 2	62.40 2	70.20 2	95.50 2	118.00 2	158.00 2	179.00 2	597.00 2
1956	157.00 4	159.00 3	168.00 3	210.00 4	252.00 4	459.00 7	595.00 8	614.00 6	2040.00 15	2430.00 8
1957	15.00 1	15.70 1	16.30 1	16.90 1	20.60 1	35.20 1	54.50 1	71.00 1	101.00 1	262.00 1
1958	1070.00 24	1140.00 27	1160.00 25	1220.00 22	1520.00 25	1740.00 19	1770.00 18	2080.00 22	2430.00 21	10400.00 28
1959	450.00 15	550.00 16	1230.00 23	1410.00 22	1480.00 16	1540.00 16	1600.00 15	1600.00 15	1860.00 12	5170.00 17
1960	973.00 21	991.00 21	1030.00 21	1280.00 25	1740.00 28	2990.00 29	3750.00 30	4370.00 29	6030.00 29	8340.00 25
1961	1090.00 25	1110.00 25	1160.00 26	1520.00 27	1650.00 26	1810.00 22	2020.00 24	2170.00 23	2840.00 23	5040.00 16
1962	1800.00 30	1800.00 30	2360.00 31	2660.00 31	3340.00 31	4890.00 31	5200.00 31	5440.00 31	8890.00 30	10500.00 29
1963	900.00 20	900.00 20	900.00 19	971.00 18	1250.00 18	1540.00 17	1630.00 17	1670.00 16	2060.00 16	3500.00 11
1964	360.00 12	407.00 12	450.00 13	522.00 13	675.00 12	794.00 13	833.00 9	819.00 10	1030.00 8	1790.00 5
1965	151.00 3	166.00 4	173.00 4	211.00 5	306.00 6	766.00 12	1340.00 14	1530.00 14	1950.00 14	4170.00 14
1966	1100.00 27	1120.00 26	1210.00 27	1370.00 26	1480.00 23	1860.00 23	1860.00 20	2010.00 21	2320.00 19	5610.00 18
1967	160.00 5	180.00 5	197.00 6	232.00 6	253.00 5	278.00 3	292.00 3	329.00 3	387.00 3	854.00 3
1968	233.00 7	236.00 7	246.00 7	287.00 7	372.00 9	503.00 9	1130.00 11	1180.00 12	1900.00 13	3090.00 10
1969	860.00 19	867.00 19	898.00 18	1170.00 21	1480.00 24	2520.00 27	2900.00 27	3350.00 27	3860.00 24	4550.00 15
1970	1040.00 23	1080.00 23	1130.00 23	1250.00 24	1320.00 21	1940.00 24	1950.00 23	2000.00 20	2240.00 18	5910.00 20
1971	289.00 11	307.00 11	331.00 10	379.00 10	505.00 11	690.00 10	1150.00 12	1150.00 11	1350.00 10	3890.00 13
1972	499.00 16	527.00 15	592.00 15	796.00 16	1010.00 16	1240.00 15	1460.00 15	1850.00 17	2560.00 22	2690.00 9
1973	389.00 13	412.00 13	437.00 12	473.00 12	722.00 14	1230.00 14	1170.00 13	1470.00 13	1560.00 11	6030.00 22
1974	1090.00 26	1100.00 24	1140.00 24	1160.00 20	1270.00 20	1940.00 25	1890.00 21	2360.00 24	9010.00 31	13000.00 30

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## ARKANSAS RIVER AT RALSTON, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1944	152000.0 4	123000.0 5	84700.0 5	59300.0 5	44400.0 5	28500.0 4	21700.0 4	17500.0 5	12800.0 6	7060.0 11
1945	119000.0 7	117000.0 6	78600.0 8	49800.0 7	33700.0 7	21800.0 9	16000.0 9	14000.0 8	11100.0 8	8230.0 7
1946	108000.0 11	96500.0 11	53800.0 12	29000.0 14	16500.0 18	9430.0 19	6870.0 21	6060.0 21	5110.0 20	3300.0 20
1947	114000.0 9	105000.0 9	74000.0 9	43100.0 9	26400.0 12	22000.0 8	17800.0 6	15000.0 7	10500.0 11	6020.0 14
1948	69300.0 15	61900.0 15	46600.0 14	37100.0 13	30700.0 10	23900.0 6	17600.0 7	13700.0 9	10600.0 10	5890.0 15
1949	63400.0 17	57600.0 16	52200.0 13	39000.0 11	30800.0 9	22000.0 7	17100.0 8	17200.0 6	16400.0 4	10100.0 4
1950	82100.0 14	71800.0 14	58800.0 11	40900.0 10	31600.0 8	21500.0 10	15700.0 10	12900.0 11	9240.0 14	5720.0 16
1951	129000.0 6	112000.0 7	87600.0 3	70100.0 1	59300.0 1	46700.0 1	37900.0 1	30200.0 1	23100.0 1	12800.0 1
1952	23600.0 24	22200.0 24	16200.0 24	11300.0 22	8260.0 24	8020.0 21	7270.0 20	6520.0 19	5530.0 19	4270.0 17
1953	15600.0 28	10600.0 29	5740.0 29	3570.0 30	3120.0 29	2340.0 30	2120.0 30	1970.0 30	1840.0 30	1270.0 29
1954	11800.0 30	6530.0 30	5740.0 30	3850.0 29	2550.0 31	2100.0 31	1650.0 31	1400.0 31	1150.0 31	776.0 31
1955	33000.0 22	25900.0 22	16900.0 22	10700.0 23	9020.0 22	6870.0 22	5140.0 23	4010.0 23	2780.0 24	1530.0 28
1956	48300.0 20	45000.0 19	31900.0 20	17600.0 20	9640.0 21	5210.0 24	3660.0 26	2890.0 27	2120.0 28	1230.0 30
1957	112000.0 10	99300.0 10	78700.0 7	61000.0 4	46900.0 3	41800.0 2	31000.0 2	24400.0 2	17100.0 3	8650.0 6
1958	54700.0 18	49400.0 18	35000.0 18	23300.0 19	17800.0 17	13400.0 16	10700.0 16	9860.0 16	9340.0 13	6080.0 13
1959	50500.0 19	42900.0 20	33900.0 19	24400.0 17	13900.0 19	8770.0 20	8080.0 18	6880.0 18	6030.0 18	3940.0 19
1960	155000.0 2	143000.0 2	102000.0 2	61100.0 3	35200.0 6	19700.0 11	14200.0 13	11700.0 13	10700.0 9	8830.0 5
1961	153000.0 3	136000.0 3	81100.0 6	46200.0 8	26500.0 11	17700.0 13	14400.0 12	12700.0 12	12200.0 7	7590.0 9
1962	94500.0 12	75700.0 13	45900.0 15	26900.0 15	22000.0 14	16000.0 14	12700.0 14	11300.0 14	8860.0 16	6920.0 12
1963	18300.0 25	13900.0 27	11000.0 26	7460.0 27	5100.0 27	3690.0 27	3610.0 27	3270.0 25	2550.0 26	2300.0 24
1964	17200.0 27	15600.0 25	13200.0 25	7810.0 26	4810.0 28	2870.0 28	2290.0 29	2320.0 28	2110.0 29	1570.0 27
1965	149000.0 5	125000.0 4	72600.0 10	38200.0 12	23300.0 13	14800.0 15	10900.0 15	10500.0 15	8900.0 15	7570.0 9
1966	7230.0 31	5000.0 31	4380.0 31	3510.0 31	3000.0 30	2510.0 29	2420.0 28	2220.0 29	2290.0 27	1810.0 26
1967	31700.0 23	25100.0 23	16700.0 23	15700.0 21	12400.0 20	9950.0 18	7300.0 19	6270.0 20	4290.0 22	2340.0 23
1968	45100.0 21	35200.0 21	18700.0 21	9860.0 24	8510.0 23	5920.0 23	5520.0 22	5190.0 22	4410.0 21	3130.0 21
1969	65200.0 16	54000.0 17	36700.0 17	23300.0 18	19500.0 15	17900.0 12	15200.0 12	13300.0 10	10000.0 12	7170.0 10
1970	92300.0 13	78100.0 12	45300.0 16	25800.0 16	19200.0 16	11700.0 17	10300.0 17	8360.0 17	6160.0 17	4040.0 18
1971	13500.0 29	11900.0 28	9840.0 28	8570.0 25	6600.0 25	4720.0 25	4080.0 24	3870.0 24	3350.0 23	2360.0 22
1972	18300.0 26	15400.0 26	10400.0 27	6470.0 28	5270.0 26	4710.0 26	3820.0 25	3250.0 26	2560.0 25	2170.0 25
1973	116000.0 8	110000.0 8	86100.0 4	56200.0 6	51100.0 2	38600.0 3	28400.0 3	23700.0 3	17200.0 2	10300.0 3
1974	194000.0 1	164000.0 1	111000.0 1	63600.0 2	44400.0 4	26400.0 5	20700.0 5	17700.0 4	15700.0 5	11700.0 2



LOCATION.--Lat 36°20'37", long 96°47'57", on east line of SE 1/4 NE 1/4 sec.31, T.22 N., R.5 E., Pawnee County, on downstream side of left pier of bridge on State Highway 18 in north Pawnee, 300 ft (91.4 m) downstream from Skedee Creek, and at mile 23.4 (37.7 km).

AVERAGE DISCHARGE.--30 years (1945-74), 169 ft<sup>3</sup>/s (4.79 m<sup>3</sup>/s).

BLACK BEAR CREEK AT PAWNEE, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34		
YEAR	NUMBER OF DAYS IN CLASS																																		CFR_DAYS		
1945	3 20 20 25 80 49 26 27 14 20 10 9 16 7 11 11 4 10 1 2																																		172044.9		
1946	1 9 11 14 22 19 11 51 71 50 27 23 12 13 9 5 7 2 4 2 1 1																																		68813.3		
1947	43 31 81 60 20 21 19 10 10 14 9 9 5 5 6 6 8 1 2 4 1																																		70394.3		
1948	9 15 26 43 63 43 32 20 20 18 14 8 11 6 5 4 6 6 5 4 8																																		39655.2		
1949	28 23 47 15 18 17 20 32 34 19 19 21 21 10 10 9 5 3 9 4 1																																		68721.6		
1950	2 28137 48 33 20 15 15 10 12 8 8 2 5 4 5 5 5 3																																		42983.0		
1951	8 32 91 54 29 20 24 18 12 15 7 9 6 4 5 7 10 8 6																																		69941.7		
1952	1 8 2 11 6 15 22 21 39 29 59 29 42 26 17 12 7 8 3 2 1 4 2																																		36885.3		
1953	10 37 17 35 37 79 36 25 13 13 12 7 12 5 6 7 6 1 4 1 2																																		17083.6		
1954	76	14 11 21 7 45 62 35 19 20 11 3 7 10 5 1 2 6 3 2 4 1																																		8430.6	
1955	87	2 43 30 39 22 19 16 13 10 18 9 13 9 3 3 3 4 3 1 6 1 3 4 2 2																																		61964.2	
1956	42	3 3 6 28 24 27 41 98 51 10 9 7 3 4 1 2 1 1																																		18589.7	
1957	75	21 11 9 5 10 16 12 12 27 26 14 19 9 10 8 6 6 5 5 8 9 4 11 14 10 2 1																																		179637.6	
1958	1 10 15 82 79 28 31 25 22 11 16 17 7 3 7 5 5 1																																		30455.1		
1959	5 3 23 42101 55 39 20 9 10 12 6 8 9 3 3 4 3 1 6 3																																		58066.4		
1960	9 20 26 56 81 52 24 30 17 11 8 8 6 7 4 2 1 3 1																																		160254.3		
1961	19 4 3 7 24 27 20 93 75 29 20 12 8 5 9 2 9 4 8 6 1 1 1																																		93930.7		
1962	1 8 47 73108 38 15 20 10 7 8 5 8 4 4 3 4 2																																		72376.2		
1963	7 12 68 83 54 26 16 13 10 8 6 4 4 6 6 4 1																																		36813.7		
1964	6	7 8 9 12 11 18 14 18 23 61 35 50 30 16 16 3 9 3 6 2 4 3 1																																		25661.5	
1965	6	7 8 9 12 11 18 14 18 23 61 35 50 30 16 16 3 9 3 6 2 4 3 1																																		21949.4	
1966	74	32 12 18 20 37 44 31 17 17 12 9 11 9 8 1 3 3 1 3 1 1																																		9772.4	
1967	75	23 15 18 16 12 23 17 29 36 21 16 15 10 9 5 7 5 5 1 3 2 2 2																																		12013.1	
1968	22	3 3 5 4	8 24 21 28 18 11 26 23 16 19 17 16 12 11 15 12 4 13 13 4 4 5 6 3																																		32942.8
1969	15	2 2 3 1	1 1 3 5 9 10 4 14 43 54 38 23 26 24 13 16 17 9 6 10 6 7 5																																		71891.5
1970	54	2 2 2 1	3 5 4 3 7 9 12 12 35 90 40 29 13 10 6 8 2 3 5 1 2 3 2																																		18265.3
1971	36	6 1 5 1	3 8 6 11 7 16 14 37 37 29 32 19 14 14 16 11 10 7 8 7 1 5 4																					27086.7													
1972	16	1 1 1 1	5 1 2 3 8 20 50 37 63 39 28 22 16 14 12 6 6 2 3 3 4 2 1																					17510.3													
1973	4	5 1 1 3	1 9 7 8 15 11 21 23 35 36 36 13 22 18 22 16 15 18 16 9 6 5																					137463.1													
1974	2 6 4 10 10 22 27 38 44 34 23 27 20 25 17 18 10 17 5 2 3 1																																		170882.4		
CLASS	CFR	TOTAL	ACCUM	PERCT	CLASS	CFR	TOTAL	ACCUM	PERCT	CLASS	CFR	TOTAL	ACCUM	PERCT	CLASS	CFR	TOTAL	ACCUM	PERCT	CLASS	CFR	TOTAL	ACCUM	PERCT	CLASS	CFR	TOTAL	ACCUM	PERCT	CLASS	CFR	TOTAL	ACCUM	PERCT			
0	0.00	588	10957	100.0	9	0.50	190	9813	89.6	18	24.0	652	3650	33.3	27	1200	132	419	3.8	27	1200	132	419	3.8	27	1200	132	419	3.8	27	1200	132	419	3.8			
1	0.01	12	10369	94.6	10	0.70	346	9623	87.8	19	36.0	678	2998	27.4	28	1800	140	287	2.6	28	1800	140	287	2.6	28	1800	140	287	2.6	28	1800	140	287	2.6			
2	0.02	14	10357	94.5	11	1.10	476	9277	84.7	20	56.0	497	2320	21.2	29	2800	82	147	1.3	29	2800	82	147	1.3	29	2800	82	147	1.3	29	2800	82	147	1.3			
3	0.03	16	10343	94.4	12	1.70	681	8801	80.3	21	87.0	331	1823	16.6	30	4300	42	65	.5	30	4300	42	65	.5	30	4300	42	65	.5	30	4300	42	65	.5			
4	0.05	8	10327	94.3	13	2.70	857	7201	74.1	22	130.0	330	1492	13.6	31	6700	13	23	.2	31	6700	13	23	.2	31	6700	13	23	.2	31	6700	13	23	.2			
5	0.08	11	10319	94.2	14	4.20	988	7263	66.3	23	210.0	222	1162	10.6	32	10000	9	10	.0	32	10000	9	10	.0	32	10000	9	10	.0	32	10000	9	10	.0			
6	0.10	151	10308	94.1	15	6.40	941	6275	57.3	24	320.0	198	940	8.6	33	16000	1	1		33	16000	1	1		33	16000	1	1		33	16000	1	1				
7	0.20	110	10157	92.7	16	9.90	865	5334	48.7	25	490.0	158	742	6.8	34					34																	
8	0.30	234	10047	91.7	17	15.00	819	4469	40.8	26	760.0	165	584	5.3																							

## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## BLACK BEAR CREEK AT PANNEE, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1946	2.90 26	3.57 26	3.97 26	4.89 24	8.43 24	12.90 25	31.70 26	68.70 26	325.00 29	465.00 28
1947	1.00 18	1.07 18	1.16 18	1.42 17	1.76 15	4.25 17	4.41 13	4.41 11	11.50 10	75.00 10
1948	0.40 15	0.40 15	0.43 14	0.46 14	0.54 11	0.98 8	1.37 8	2.08 6	2.77 6	191.00 21
1949	0.70 16	0.70 16	0.76 15	0.84 15	1.06 14	2.89 14	7.70 19	8.91 16	49.70 22	154.00 18
1950	1.20 19	1.23 19	1.37 19	1.91 20	3.10 19	4.34 18	4.64 14	4.82 13	14.30 13	145.00 17
1951	1.30 20	1.37 20	1.50 20	1.65 18	2.06 16	2.52 13	2.98 10	3.28 9	4.98 7	117.00 16
1952	3.30 27	3.77 27	4.71 27	6.19 28	9.92 27	16.10 26	17.90 25	30.00 23	65.40 24	229.00 23
1953	0.20 13	0.20 13	0.26 12	0.31 12	0.43 10	0.61 6	1.05 7	1.43 4	1.77 4	61.00 8
1954	0.10 12	0.10 12	0.10 10	0.16 10	0.25 8	1.22 9	1.45 9	8.60 15	14.00 12	49.70 6
1955	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.07 1	17.80 2
1956	0.30 14	0.30 14	0.30 13	0.46 13	0.76 13	4.02 16	4.05 12	4.32 10	96.00 25	216.00 22
1957	0.00 2	0.00 2	0.00 2	0.00 2	0.00 2	0.00 2	0.03 2	0.34 2	0.36 2	3.47 1
1958	1.40 21	1.43 21	2.14 23	4.90 25	5.67 22	7.09 20	7.58 18	10.20 18	20.50 16	517.00 29
1959	0.80 17	0.93 17	1.01 16	1.74 19	2.32 17	4.61 19	4.77 15	4.96 14	5.84 8	61.20 9
1960	1.80 23	2.00 24	2.51 24	5.40 27	17.90 28	43.90 28	82.10 29	100.00 28	311.00 28	437.00 27
1961	4.40 28	4.60 28	4.83 28	5.16 26	8.57 25	11.60 24	16.30 24	21.20 21	38.40 19	182.00 20
1962	5.40 29	5.93 29	6.64 29	8.63 29	25.30 29	66.30 29	64.20 28	88.60 27	251.00 27	356.00 23
1963	1.90 24	1.97 23	2.04 22	2.21 21	4.78 21	8.56 22	12.20 23	17.20 20	16.20 14	82.50 11
1964	1.90 25	2.80 25	3.41 25	4.00 23	6.73 23	7.28 21	8.98 21	11.80 19	21.30 17	102.00 14
1965	0.00 3	0.00 3	0.10 11	0.20 11	0.40 9	2.00 11	10.50 22	21.70 22	53.10 23	88.20 13
1966	0.00 4	0.00 4	0.00 3	0.00 3	0.03 5	0.06 4	0.50 4	2.22 7	2.58 5	32.80 4
1967	0.00 5	0.00 5	0.00 4	0.00 4	0.00 3	0.02 3	0.09 3	0.38 3	1.44 3	27.90 3
1968	0.00 6	0.00 6	0.02 8	0.08 8	0.21 6	0.65 7	0.97 6	1.50 5	24.00 18	42.40 5
1969	0.00 7	0.00 7	0.00 5	0.00 5	0.68 12	2.35 12	4.79 16	4.68 12	20.50 15	104.00 15
1970	0.00 8	0.05 11	1.05 17	1.32 16	3.46 20	9.31 23	8.85 20	9.59 17	13.70 11	179.00 19
1971	0.00 9	0.00 8	0.00 6	0.00 6	0.00 4	0.43 5	0.92 5	3.09 8	7.97 9	50.30 7
1972	0.00 10	0.01 10	0.05 9	0.10 9	3.04 18	3.89 15	5.43 17	50.70 25	39.80 20	86.50 12
1973	0.00 11	0.00 9	0.00 7	0.00 7	0.21 7	1.98 10	3.13 11	37.90 24	46.30 21	230.00 24
1974	1.40 22	1.47 22	2.01 21	3.29 22	8.70 26	30.30 27	53.20 27	105.00 29	212.00 26	400.00 26

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## BLACK BEAR CREEK AT PANNEE, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1945	15900.0 2	10900.0 2	5670.0 2	2700.0 4	1480.0 6	849.0 7	888.0 4	812.0 2	689.0 2	471.0 2
1946	11500.0 3	8130.0 4	3600.0 9	1720.0 11	878.0 13	452.0 15	309.0 18	276.0 16	239.0 14	189.0 11
1947	8760.0 7	7050.0 7	3940.0 5	2220.0 6	1290.0 7	1040.0 4	725.0 6	567.0 6	374.0 7	193.0 9
1948	2740.0 20	1930.0 21	1580.0 17	960.0 17	784.0 15	505.0 14	349.0 15	312.0 15	213.0 16	108.0 16
1949	4360.0 13	3630.0 13	2630.0 10	2160.0 7	1210.0 8	687.0 9	508.0 12	439.0 10	347.0 10	188.0 12
1950	3650.0 16	3290.0 16	2130.0 15	1340.0 13	837.0 14	441.0 16	440.0 13	333.0 14	221.0 15	118.0 15
1951	3540.0 17	3340.0 15	2610.0 12	1480.0 12	1060.0 9	819.0 8	653.0 8	499.0 9	370.0 8	192.0 10
1952	3960.0 14	3410.0 14	1580.0 16	829.0 18	491.0 19	314.0 19	316.0 17	262.0 17	178.0 18	101.0 17
1953	2340.0 25	1900.0 22	942.0 23	543.0 23	277.0 26	170.0 25	164.0 24	128.0 25	91.5 24	46.8 27
1954	2340.0 26	1140.0 30	540.0 30	280.0 30	175.0 30	96.2 30	65.1 30	49.3 30	37.1 30	23.1 30
1955	8080.0 8	6040.0 8	3750.0 7	2790.0 3	1820.0 3	1000.0 5	673.0 7	510.0 8	337.0 11	170.0 13
1956	5230.0 12	4350.0 12	2380.0 13	1120.0 15	564.0 17	284.0 20	191.0 21	144.0 22	96.0 23	50.8 24
1957	11100.0 5	7660.0 6	5330.0 3	3670.0 2	2620.0 2	2260.0 1	1940.0 1	1470.0 1	980.0 1	492.0 1
1958	2340.0 27	1740.0 23	902.0 25	495.0 25	389.0 24	239.0 22	202.0 20	171.0 21	146.0 20	83.4 20
1959	6540.0 10	4800.0 11	2620.0 11	1810.0 10	988.0 11	525.0 13	542.0 10	424.0 12	311.0 12	159.0 14
1960	25400.0 1	17700.0 1	11300.0 1	5380.0 1	2720.0 1	1390.0 2	973.0 2	749.0 4	563.0 5	438.0 4
1961	11000.0 6	7870.0 5	3920.0 6	1930.0 9	1030.0 10	663.0 10	569.0 9	567.0 7	466.0 6	257.0 6
1962	8000.0 9	4910.0 10	2260.0 14	1110.0 16	906.0 12	580.0 12	437.0 14	349.0 13	251.0 13	198.0 7
1963	3080.0 18	2690.0 18	1500.0 19	785.0 19	433.0 21	367.0 18	305.0 19	254.0 18	185.0 17	101.0 18
1964	2050.0 29	1210.0 28	951.0 22	638.0 21	394.0 23	202.0 24	135.0 25	142.0 23	119.0 22	70.1 22
1965	2380.0 24	1690.0 24	929.0 24	456.0 27	259.0 27	136.0 27	97.3 28	77.1 28	64.0 26	60.1 23
1966	2880.0 19	2060.0 19	968.0 21	460.0 26	283.0 25	149.0 26	99.1 27	75.7 29	50.8 29	26.8 29
1967	1690.0 30	1200.0 29	696.0 29	353.0 29	208.0 29	122.0 28	88.2 29	79.3 27	60.7 27	32.9 28
1968	2730.0 21	2000.0 20	995.0 20	622.0 22	496.0 18	408.0 17	317.0 16	253.0 19	168.0 19	90.0 19
1969	3780.0 15	2730.0 17	1560.0 18	1200.0 14	767.0 16	589.0 11	531.0 11	426.0 11	353.0 9	197.0 8
1970	2470.0 22	1430.0 27	757.0 27	531.0 24	421.0 22	248.0 21	169.0 22	130.0 24	89.2 25	50.0 25
1971	2380.0 23	1530.0 25	760.0 26	641.0 20	463.0 20	234.0 23	167.0 23	179.0 20	133.0 21	74.2 21
1972	2110.0 28	1500.0 26	752.0 28	364.0 28	212.0 28	110.0 29	103.0 26	83.9 26	56.4 28	47.8 26
1973	5300.0 11	5140.0 9	3680.0 8	2100.0 8	1610.0 5	1260.0 3	894.0 3	785.0 3	571.0 4	377.0 5
1974	11400.0 4	8940.0 3	5080.0 4	2680.0 5	1650.0 4	909.0 6	791.0 5	731.0 5	588.0 3	468.0 3

## STATISTICS OF ANNUAL DISCHARGE FOR WATER YEARS, 1945-74

Units of annual Discharge	Mean	Standard Deviation	Coefficient of Variation	Skew Coefficient	First Order Serial Correlation Coefficient
CFS	169	143	0.84	1.23	0.20
LOGS of CFS	2.073	0.378		-0.044	0.291

## ARKANSAS RIVER BASIN

07154500 CIMARRON RIVER NEAR KENTON, OKLA.

LOCATION.--Lat 36°55'36", long 102°57'31", in SE 1/4 sec.4, T.5 N., R.1 E., Cimarron County, near right bank on downstream side of pier of county road bridge, 1.5 mi (2.41 km) upstream from North Carrizo Creek, 1.7 mi (2.74 km) northeast of Kenton, 2.2 mi (3.54 km) downstream from Carrizozo Creek, and at mile 594.0 \*955.7 km).

DRAINAGE AREA.--1,106 mi<sup>2</sup> (2,865 km<sup>2</sup>), of which 68 mi<sup>2</sup> (176.1 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD.--October 1950 to September 1974.

AVERAGE DISCHARGE.--24 years (1951-74), 22.9 ft<sup>3</sup>/s (0.648 m<sup>3</sup>/s).

REMARKS.--Extensive diversions for irrigation above station.

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

## CIMARRON RIVER NEAR KENTON, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
YEAR	NUMBER OF DAYS IN CLASS																																		CFS-DAYS
1951	8						10	5	2	8	19	21	43	87	47	48	8	10	12	10	4	7	4	3	4	1	4								6842.7
1952	39						6	7	7	8	17	47	60	66	40	38	5	7	4	8			3		1	2		1							3436.6
1953	67						18	25	5	22	16	35	64	52	15	9	4	4	2	4	4	3	3	1	2	4	2	3		1				9370.0	
1954	65						24	23	24	27	41	58	32	28	10	7	6	2	4	2	2	1	1	4	1					1	1	1		11032.1	
1955	38						4	3	1	15	35	46	68	44	14	17	22	15	8	8	6	2	4	3	3	2	1	2	1	1		1	1	23956.0	
1956	74						17	9	18	23	40	54	39	23	16	7	4	7	6	3	4	5	6	2	3	3			2	1				8254.3	
1957	62						2			5	16	73	71	24	18	17	14	12	15	6	8	5	7	3	3	3		1						7808.8	
1958							1		1		1	22	76	61	87	29	19	19	21	8	5	8		2	3	1					1			9090.5	
1959	22						5	3	5	7	17	32	63	106	49	33	7	2	5	3	3		2			1								1903.8	
1960	75						9	11	3	26	28	52	104	39	6	1	2	1	1	1	2	3			1				1					2219.6	
1961	3						2	3	3	21	17	66	98	74	20	16	9	5	4	7		4	2	4	1	3	2	1							5955.3
1962	38						3	2	1	9	23	52	57	110	55	3	2	1	2	1	3	1		1		1								1675.7	
1963	94						10	9	17	35	45	34	47	20	11	6	5	3	3	4	5	3	1	4	1	1	2	1	1	1	1	1	1		16129.1
1964	147						10	4	7	13	107	51	7	3	6	4	3	1						1		1	1								1808.2
1965	205						15	6	7	19	8	5	5	8	5	10	17	11	12	7	3	2	2	3	3	1	2	2	1	3	1		1	1	34734.2
1966	17				2		5	3	3	3	8	6	33	67	29	48	46	52	13	6	5	3	2	3	2	2	2	1	1	1	1		1		22573.9
1967	12						5			8	13	21	46	61	58	44	12	31	21	9	5	5	4	4	2		1	2	1					7697.8	
1968	24					1	4	6	4	10	4	31	43	67	77	44	22	5	3	2	5	3	4	1	2		1	2	1					6291.5	
1969	20		1	3	4	5	18	4	8	10	12	24	57	42	91	21	4	12	8	4	5	2	1	3		2	3			1				7289.9	
1970	97	1			5		2	2	3	4	6	7	33	82	35	28	40	18				2													1277.2
1971	87	1	7		6	7	33	26	27	28	20	24	26	27	25	10	2	2	1			3	1	1	1										1206.4
1972	108	6	2		12	4	40	18	12	24	50	18	13	8	14	11	6	5	2			4	2			4	2		1						3878.1
1973	113	3	2	3	9	12	22	10	13	38	42	46	18	11	8	5	2	1				3	1	1					1		1				4714.9
1974	76	5	4	6	15	15	49	37	35	39	16	28	19	5			1	1	1	1	2	3	1	2	1	1	2								1896.7

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	1491	8766	100.0	9	0.40	402	6398	73.0	18	17.0	148	623	7.1	27	740	17	51	.5
1	0.01	16	7275	83.0	10	0.60	601	5996	68.4	19	26.0	95	475	5.4	28	1100	11	34	.3
2	0.02	16	7259	82.8	11	0.90	853	5395	61.5	20	40.0	81	380	4.3	29	1700	10	23	.2
3	0.03	12	7243	82.6	12	1.40	1122	4542	51.8	21	60.0	64	299	3.4	30	2600	5	13	.1
4	0.04	53	7231	82.5	13	2.10	1115	3420	39.0	22	92.0	50	235	2.7	31	4000	4	8	.0
5	0.07	44	7178	81.9	14	3.20	736	2305	26.3	23	140.0	41	185	2.1	32	6000	3	4	.0
6	0.10	309	7134	81.4	15	4.90	457	1569	17.9	24	210.0	38	144	1.6	33	9200	1	1	.0
7	0.20	221	6825	77.9	16	7.40	262	1112	12.7	25	320.0	30	106	1.2	34				
8	0.30	206	6604	75.3	17	11.00	227	850	9.7	26	490.0	25	76	0.9					

## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## CIMARRON RIVER NEAR KENTON, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1952	0.00 1	0.00 1	0.03 19	0.04 16	0.45 17	1.65 16	1.83 15	2.17 15	2.56 15	18.40 12
1953	0.00 2	0.00 2	0.00 1	0.00 1	0.07 12	0.36 9	0.72 10	1.18 11	1.34 11	8.80 7
1954	0.00 3	0.00 3	0.00 2	0.00 2	0.03 11	0.15 7	0.75 11	1.05 10	1.15 10	25.50 18
1955	0.00 4	0.00 4	0.00 3	0.00 3	0.00 1	0.03 5	0.25 3	1.32 13	17.90 22	38.60 20
1956	0.00 5	0.00 5	0.00 4	0.00 4	0.01 9	0.81 14	0.82 12	0.92 9	1.12 9	57.10 22
1957	0.00 6	0.00 6	0.00 5	0.00 5	0.00 2	0.00 1	0.36 6	0.59 5	0.67 3	22.50 16
1958	0.90 23	0.93 23	1.00 22	1.14 22	1.42 23	2.27 21	2.53 20	2.53 18	2.88 17	22.40 15
1959	0.10 22	0.40 22	1.00 23	1.24 23	1.28 22	1.70 18	1.91 16	2.28 16	2.99 18	25.00 17
1960	0.00 7	0.00 7	0.00 6	0.12 19	0.37 16	0.70 13	0.97 14	1.19 12	1.41 12	4.42 4
1961	0.00 8	0.00 8	0.00 7	0.00 6	0.25 14	0.56 12	0.91 13	1.40 14	1.60 13	6.12 6
1962	0.00 9	0.00 9	0.13 21	0.38 21	0.51 18	1.79 19	2.16 17	2.35 17	2.55 14	16.80 11
1963	0.00 10	0.00 10	0.00 8	0.00 7	0.08 13	0.40 10	0.52 8	0.64 8	0.97 7	3.83 3
1964	0.00 11	0.00 11	0.00 9	0.00 8	0.01 10	0.51 11	0.56 9	0.63 6	0.95 6	44.00 21
1965	0.00 12	0.00 12	0.00 10	0.00 9	0.00 3	0.00 2	0.00 1	0.00 1	0.01 1	4.50 5
1966	0.00 13	0.00 13	0.00 11	0.00 10	0.00 4	4.64 23	5.32 23	6.38 23	62.90 23	127.00 23
1967	0.00 14	0.00 14	0.00 12	0.06 17	1.25 21	1.66 17	2.84 21	3.17 20	4.26 20	32.40 19
1968	0.00 15	0.00 15	0.03 20	0.35 20	1.00 20	3.22 22	3.77 22	3.94 22	4.01 19	21.00 13
1969	0.00 16	0.00 16	0.00 13	0.10 18	0.94 19	1.59 15	2.51 19	2.91 19	2.85 16	16.70 10
1970	0.00 17	0.00 17	0.00 14	0.00 11	0.31 15	1.91 20	2.47 18	3.47 21	5.49 21	21.30 14
1971	0.00 18	0.00 18	0.00 15	0.00 12	0.00 5	0.14 6	0.27 4	0.49 2	0.79 5	1.41 1
1972	0.00 19	0.00 19	0.00 16	0.00 13	0.00 6	0.00 3	0.08 2	0.55 3	1.04 8	3.27 2
1973	0.00 20	0.00 20	0.00 17	0.00 14	0.00 7	0.21 8	0.48 7	0.55 4	0.68 4	10.50 8
1974	0.00 21	0.00 21	0.00 18	0.00 15	0.00 8	0.01 4	0.28 5	0.63 7	0.64 2	12.80 9

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## CIMARRON RIVER NEAR KENTON, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1951	682.0 19	454.0 18	261.0 16	154.0 14	120.0 11	73.4 13	54.6 14	51.6 12	34.2 12	18.7 12
1952	826.0 18	494.0 15	217.0 19	107.0 18	62.7 17	40.2 17	27.1 17	23.2 17	16.4 17	9.4 17
1953	2130.0 9	1230.0 7	609.0 7	353.0 7	204.0 7	150.0 6	101.0 6	75.8 6	49.7 6	25.7 6
1954	4260.0 6	1560.0 6	1100.0 4	534.0 4	343.0 4	180.0 5	120.0 5	89.9 5	59.1 5	30.2 5
1955	8750.0 3	4960.0 1	2290.0 1	1090.0 1	548.0 2	295.0 2	221.0 2	171.0 2	113.0 2	65.6 2
1956	1710.0 10	1050.0 9	466.0 9	218.0 10	118.0 12	110.0 8	87.7 8	67.0 8	44.1 8	22.6 8
1957	1180.0 14	497.0 12	318.0 13	194.0 12	151.0 9	107.0 9	74.3 9	61.8 9	41.9 9	21.4 9
1958	4900.0 4	1840.0 5	817.0 6	392.0 6	211.0 6	125.0 7	90.3 7	69.4 7	46.8 7	24.9 7
1959	469.0 22	205.0 21	98.9 21	55.1 21	30.8 21	18.3 21	13.2 21	10.4 21	7.7 21	5.2 20
1960	1150.0 15	494.0 13	221.0 18	109.0 17	57.9 18	29.2 18	20.5 18	15.8 18	10.6 18	6.1 18
1961	1050.0 16	448.0 19	357.0 11	187.0 13	98.6 15	70.1 14	54.7 13	46.2 13	30.9 13	16.3 14
1962	515.0 20	188.0 22	83.2 22	40.6 23	28.0 22	17.1 22	11.8 22	9.7 22	6.8 22	4.6 22
1963	4720.0 5	1980.0 4	946.0 5	444.0 5	262.0 5	242.0 3	169.0 3	130.0 3	87.1 3	44.2 4
1964	843.0 17	460.0 17	227.0 17	106.0 19	53.5 19	26.8 20	18.1 20	13.6 20	9.2 20	4.9 21
1965	11000.0 1	4870.0 2	2150.0 2	1030.0 2	595.0 1	309.0 1	318.0 1	286.0 1	190.0 1	95.2 1
1966	9180.0 2	3300.0 3	1440.0 3	684.0 3	348.0 3	180.0 4	123.0 4	93.6 4	62.8 4	61.8 3
1967	1200.0 13	479.0 16	320.0 12	211.0 11	121.0 10	90.2 11	67.4 10	57.0 10	38.0 10	21.1 10
1968	1290.0 12	494.0 14	262.0 15	134.0 16	115.0 13	87.3 12	60.1 12	45.3 14	30.4 14	17.2 13
1969	2430.0 8	1020.0 10	452.0 10	294.0 8	183.0 8	95.0 10	63.9 11	54.0 11	37.0 11	20.0 11
1970	53.0 24	23.4 24	13.6 24	11.3 24	10.6 24	9.3 24	8.4 24	7.1 24	5.4 24	3.5 23
1971	283.0 23	123.0 23	58.3 23	41.6 22	21.0 23	14.0 23	10.4 23	8.1 23	5.8 23	3.3 24
1972	1380.0 11	680.0 11	303.0 14	142.0 15	81.2 16	52.3 16	36.0 16	30.4 16	20.1 16	10.6 16
1973	3300.0 7	1120.0 8	480.0 8	224.0 9	112.0 14	59.2 15	49.8 15	37.3 15	25.0 15	12.9 15
1974	487.0 21	320.0 20	163.0 20	90.4 20	51.9 20	28.6 19	19.7 19	14.8 19	9.8 19	5.2 19

## STATISTICS OF ANNUAL DISCHARGE FOR WATER YEARS, 1951-74

Units of annual Discharge	Mean	Standard Deviation	Coefficient of Variation	Skew Coefficient	First Order Serial Correlation Coefficient
CFS	22.9	22.8	0.99	1.091	0.21
LOGS of CFS	1.179	0.413		0.066	0.168

## ARKANSAS RIVER BASIN

## 07155000 CIMARRON RIVER ABOVE UTE CREEK, NEAR BOISE CITY, OKLA.

LOCATION.--Lat 36°54'46", long 102°37'03", in SE 1/4 sec.10, T.5 N., R.4 E., on right bank 1,000 ft ( m) downstream from Kohler's dam, 1.0 mi (1.6 km) upstream from Cold Springs Creek, 5.5 mi (8.8 km) upstream from Ute Creek, 14.0 mi (22.5 km) northwest of Boise City, and at mile 560.0 (901.0 km).

DRAINAGE AREA.--1,955 mi<sup>2</sup> (5,063 km<sup>2</sup>), of which 76 mi<sup>2</sup> (197 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD.--May 1905 to August 1907, October 1942 to September 1954.

AVERAGE DISCHARGE.--13 years (1906, 1943-54), 42.4 ft<sup>3</sup>/s (1.20 m<sup>3</sup>/s).

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

## CIMARRON RIVER ABOVE UTE CREEK NEAR BOISE CITY, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS
1906									13	31	13	13	13	47	42	74	60	8	4	10	9	7			4	2	5	3	1	1	3	2			22275.6
1943	61							8		5	7	20	14	14	37	14	22	20	45	67	11	7			4	4	1	1							14370.0
1944	92							4		5	1	7	4	2	37	34	11	94	34	14	9	8		2	4	1	1	1		1					12215.0
1945	175							19		4	2	38	4	3	40	43	9	3	6	2	6	3		3		2					3				9048.0
1946	117	32	1	2	2	14	3	12	13	37	8	57	3	5	5	4	6	7	7	11	3	6	3	2	2	1							2		11099.4
1947	87	14						7	9	22	1	10	28	40	26	27	18	18	14	6	6	3	2	3	3	1	1	1	1						7343.8
1948	196	7	2	3	3	1	11	20	4	13	12	8	7	4	10	8	12	8	3	8	4	4	3	2	4	2	1	2			1	2	1	1	19277.1
1949	56	10	3	11	3	10	7	20	5	26	17	33	26	27	24	12	10	9	8	10	9	6	7	3	1					1				13674.9	
1950	130	38	1	17		6	6	8	5	9	14	14	12	7	2	4	5	3	5	8	27	14	9	3	6	2	2	3			1	3	1	1	30366.9
1951	40	3	2	3	1	6	1	5	4	16	16	27	43	51	36	20	14	14	9	7	16	11	3	2	5	4	1	1	1	1	1	1	1	22099.5	
1952	129	3	4	6	3	4	4	12	11	17	19	36	37	34	10	9	5	7	4	3	1	1	5											4146.6	
1953	304							2		1	3	1	2	3	2	6	3	4	2	5	3	4	3	3	1	3	2	3	2						16905.1
1954	310			1		1	1	1		1	1	4	5	3	4	1	3	5	4	5	1	5		1	1	2	1		1				3	3	18309.7

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	1697	4748	100.0	9	1.90	177	2582	54.4	18	37.0	140	666	14.0	27	710	13	49	1.0
1	0.10	107	3051	64.3	10	2.70	139	2405	50.7	19	51.0	149	526	11.1	28	990	7	36	.7
2	0.20	13	2944	62.0	11	3.70	299	2266	47.7	20	71.0	103	377	7.9	29	1400	9	29	.6
3	0.30	56	2931	61.7	12	5.10	199	1967	41.4	21	99.0	81	274	5.8	30	1900	3	20	.4
4	0.40	12	2875	60.6	13	7.20	226	1768	37.2	22	140.0	41	193	4.1	31	2600	10	17	.3
5	0.50	51	2863	60.3	14	9.90	271	1542	32.5	23	190.0	36	152	3.2	32	3700	5	7	.1
6	0.70	42	2812	59.2	15	14.00	244	1271	26.8	24	270.0	29	116	2.4	33	5100	2	2	.0
7	1.00	131	2770	58.3	16	19.00	175	1027	21.6	25	370.0	25	87	1.8	34				
8	1.40	57	2639	55.6	17	27.00	186	852	17.9	26	510.0	13	62	1.3					

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## CIMARRON RIVER ABOVE UTE CREEK NEAR BOISE CITY, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1907	0.50 12	0.50 12	0.50 12	0.79 12	3.82 12	11.10 12	15.10 12	16.50 12	20.00 12	64.30 11
1944	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	4.06 8	11.70 11	16.90 11	23.40 3
1945	0.00 2	0.00 2	0.00 2	0.00 2	0.00 2	0.00 2	0.00 1	0.64 5	3.35 6	25.20 5
1946	0.00 3	0.00 3	0.00 3	0.00 3	0.00 3	1.47 10	1.37 6	2.21 6	2.33 5	24.30 4
1947	0.00 4	0.00 4	0.00 4	0.00 4	0.03 10	3.69 11	4.51 9	5.26 8	7.67 9	31.90 6
1948	0.00 5	0.00 5	0.00 5	0.00 5	0.00 4	0.00 3	0.00 2	0.01 3	0.12 3	17.10 2
1949	0.00 6	0.00 6	0.00 6	0.00 6	0.00 5	0.12 7	4.88 10	5.82 9	5.50 8	54.60 9
1950	0.00 7	0.00 7	0.00 7	0.00 7	0.00 6	0.00 4	0.00 3	0.53 4	1.45 4	35.40 7
1951	0.00 8	0.00 8	0.00 8	0.00 8	0.09 11	0.60 9	6.86 11	7.09 10	9.09 10	86.90 12
1952	0.00 9	0.00 9	0.00 9	0.00 9	0.00 7	0.49 8	2.88 7	2.87 7	4.25 7	58.30 10
1953	0.00 10	0.00 10	0.00 10	0.00 10	0.00 8	0.00 5	0.00 4	0.00 1	0.00 1	9.04 1
1954	0.00 11	0.00 11	0.00 11	0.00 11	0.00 9	0.00 6	0.00 5	0.00 2	0.00 2	46.30 8

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## CIMARRON RIVER ABOVE UTE CREEK NEAR BOISE CITY, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1906	2210.0 8	1370.0 7	637.0 7	428.0 6	227.0 6	157.0 7	167.0 6	156.0 4	109.0 3	61.0 2
1943	890.0 13	447.0 13	278.0 12	187.0 11	124.0 11	90.3 11	77.3 11	69.3 10	54.2 10	39.4 7
1944	1180.0 11	759.0 10	414.0 10	224.0 10	140.0 10	111.0 8	86.4 9	72.9 9	57.7 9	33.4 9
1945	1680.0 9	1100.0 9	519.0 9	277.0 9	154.0 9	95.1 9	85.3 10	66.2 11	44.0 11	24.8 11
1946	3160.0 7	1250.0 8	571.0 8	298.0 8	180.0 8	93.3 10	95.8 8	84.8 8	58.0 8	30.4 10
1947	1210.0 10	586.0 11	304.0 11	157.0 12	91.1 12	76.2 12	54.0 12	48.6 12	33.5 12	20.1 12
1948	5100.0 2	1860.0 4	821.0 6	397.0 7	214.0 7	205.0 5	174.0 4	158.0 3	104.0 4	52.7 4
1949	4110.0 5	1810.0 5	883.0 5	463.0 5	247.0 5	165.0 6	119.0 7	103.0 7	69.4 7	37.5 8
1950	5520.0 1	2220.0 2	1530.0 1	847.0 1	502.0 2	371.0 1	317.0 1	251.0 1	164.0 1	83.2 1
1951	4850.0 3	2050.0 3	979.0 4	539.0 4	363.0 3	234.0 4	174.0 5	170.0 2	112.0 2	60.5 3
1952	1010.0 12	538.0 12	249.0 13	117.0 13	68.3 13	44.7 13	30.3 13	24.8 13	18.7 13	11.3 13
1953	3670.0 6	2230.0 1	1070.0 3	571.0 3	329.0 4	281.0 3	188.0 3	141.0 6	92.4 6	46.3 6
1954	4730.0 4	1770.0 6	1330.0 2	719.0 2	596.0 1	305.0 2	203.0 2	153.0 5	100.0 5	50.2 5

## STATISTICS OF ANNUAL DISCHARGE FOR WATER YEARS, 1906, 1942-53

Units of annual Discharge	Mean	Standard Deviation	Coefficient of Variation	Skew Coefficient	First Order Serial Correlation Coefficient
CFS	42.4	19.5	0.46	0.44	0.05
LOGS of CFS	1.577	0.231		-0.859	-0.098



## ARKANSAS RIVER BASIN

57

07156900 CIMARRON RIVER NEAR FORGAN, OKLA.

LOCATION.--Lat 37°00'45", long 100°29'39", in SE 1/4 SE 1/4 sec.8, T.35 S., R.24 E., Mead County, Kans., near center of span on downstream side of pier of bridge on Kansas State Highway 23, 0.8 mi (1.3 km) north of Oklahoma-Kansas State line, 7.8 mi (12.5 km) north of Forgan, and at mile 375.7 (604.5 km).

DRAINAGE AREA.--8,536 mi<sup>2</sup> (22,108 km<sup>2</sup>), of which 4,316 mi<sup>2</sup> (11,178 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD.--October 1965 to September 1974.

AVERAGE DISCHARGE.--9 years (1965-74), 85.4 ft<sup>3</sup>/s (2.419 m<sup>3</sup>/s).

REMARKS.--Extensive diversion for irrigation above station.

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

CIMARRON RIVER NEAR FORGAN, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS	
1966					4	16	42	41	81	87	50	19	8	1	3	2	1						1	1										1	2	52839.0
1967					2	20	56	81	88	47	33	6	7	9	3	3	3					3	2		1											36148.0
1968					10	14	30	80	79	82	43	14	4	3	1	1	2	1	1				1													28146.0
1969					3	13	7	17	36	37	124	48	46	14	10	2	3	1	1				1													28579.0
1970					1	7	19	26	42	34	52	73	66	24	12	5	1	2				1														23895.0
1971					8	20	31	36	42	57	73	62	22	6	2	4																				22781.0
1972					6	24	36	52	84	49	53	18	13	11	5	2	1	1	2	2	2	1	1	1	1	1	1									36584.0
1973									18	33	47	89	83	55	16	6	7	3	3																	30407.0
1974					3	4	6	11	36	59	124	76	28	10	3	3	2																			21261.0

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	3287	100.0	9	75.00	593	1265	38.5	18	370.0	9	37	1.1	27	1800				27	1800			
1	18.00	4	3287	100.0	10	89.00	350	672	20.4	19	440.0	6	28	0.9	28	2200				28	2200			
2	22.00	22	3283	99.9	11	110.00	135	322	9.8	20	530.0	8	22	0.7	29	2600				29	2600			
3	26.00	58	3261	99.2	12	130.00	52	187	5.7	21	630.0	2	14	0.4	30	3100				30	3100			
4	31.00	95	3203	97.4	13	150.00	42	135	4.1	22	750.0	2	12	0.4	31	3700				31	3700			
5	37.00	205	3108	94.6	14	180.00	25	98	2.8	23	900.0	1	10	0.3	32	4400				32	4400			
6	44.00	332	2903	88.3	15	220.00	12	68	2.1	24	1100.0	3	9	0.3	33	5300				33	5300			
7	52.00	546	2571	78.2	16	260.00	11	56	1.7	25	1300.0	1	6	0.2	34	6300				34	6300			
8	62.00	760	2025	61.6	17	310.00	8	45	1.4	26	1500.0	1	5	0.2										

## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

CIMARRON RIVER NEAR FORGAN, OKLAHOMA

YEAR	1		3		7		14		30		60		90		120		183		ANNUAL	
1967	35.00	7	35.70	7	38.10	7	40.30	5	45.60	5	51.10	4	58.50	5	64.50	5	88.30	8	88.00	6
1968	42.00	8	44.00	8	46.30	8	50.20	8	52.00	7	61.30	7	65.40	7	70.50	7	72.50	5	94.30	7
1969	33.00	5	33.70	5	35.10	5	42.40	6	54.80	8	58.20	6	64.00	6	64.60	6	68.70	4	74.40	4
1970	25.00	4	25.00	4	26.10	4	27.70	2	35.20	2	43.50	3	56.90	3	62.60	4	78.50	6	82.60	5
1971	21.00	2	22.30	2	25.10	3	28.90	4	36.10	3	36.80	1	38.60	2	39.70	1	47.60	2	64.10	2
1972	22.00	3	23.30	3	24.70	2	28.10	3	32.50	1	36.90	2	37.90	1	39.90	2	47.50	1	63.70	1
1973	34.00	6	35.00	6	37.60	6	44.80	7	48.30	6	69.50	8	78.10	8	82.80	8	81.50	7	105.00	8
1974	18.00	1	19.00	1	22.70	1	25.50	1	44.60	4	53.00	5	57.20	4	58.80	3	61.90	3	70.10	3

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

CIMARRON RIVER NEAR FORGAN, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1966	7490.0	1	6140.0	1	3020.0	1	1470.0	1	783.0	1
1967	1190.0	3	531.0	4	347.0	4	270.0	3	245.0	2
1968	585.0	5	319.0	6	194.0	6	123.0	7	108.0	6
1969	1170.0	4	676.0	3	362.0	3	240.0	4	185.0	4
1970	421.0	7	285.0	7	176.0	7	125.0	6	102.0	7
1971	350.0	8	208.0	8	151.0	8	115.0	8	98.1	8
1972	1370.0	2	950.0	2	738.0	2	392.0	2	235.0	3
1973	548.0	6	348.0	5	195.0	5	134.0	5	123.0	5
1974	170.0	9	137.0	9	109.0	9	88.3	9	73.3	9



## ARKANSAS RIVER BASIN

07157000 CIMARRON RIVER NEAR MOCANE, OKLA.

LOCATION.--Lat 36°58'27", long 100°18'54", in SW 1/4 NW 1/4 sec.24, T.6 N., R.25 E., near right bank on downstream side of pier of bridge on county road, 6.5 mi (10.5 km) northeast of Mocane, 14.7 mi (23.7 km) upstream from Crooked Creek, and at mile 364.1 (585.8 km).

DRAINAGE AREA.--8,670 mi<sup>2</sup> (22,455 km<sup>2</sup>) of which 4,365 mi<sup>2</sup> (11,305 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD.--October 1942 to September 1965.

AVERAGE DISCHARGE.--23 years (1943-65), 101 ft<sup>3</sup>/s (2.86 m<sup>3</sup>/s).

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

## CIMARRON RIVER NEAR MOCANE, OKLAHOMA

CLASS 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34

YEAR	NUMBER OF DAYS IN CLASS																																	CFS_DAYS
1943	2	1					1		3	2	5	12	20	26	15	29	43	55	83	25	17	6	19		1								20816.5	
1944											1	1	6	5	13	36	69	111	62	23	11	6	4	6	1	8		3				31866.4		
1945												3	3	8	19	48	73	77	65	41	18	7	1					1					21828.6	
1946																																		
1947	1						2			2	3	7	14	23	7	24	40	118	67	32	12	5	2	3	1	1		1					22495.2	
1948														10	11	30	33	42	69	91	41	15	7	6	3	3	2		1	1	1		41312.0	
1949														6	1	13	57	102	79	50	20	14	9	8	3	1	1	1					34568.0	
1950													1	2			1	5	49	127	67	40	42	11	8	5	2				4	1	54140.0	
																2	9	48	123	96	31	19	15	6	4	5	2	1	3	1			53364.0	
1951																	4	14	44	122	84	38	18	10	11	5	2	5	5	2			1	73650.0
1952																1	8	22	34	61	106	101	26	3	3	1								25906.0
1953																1	3	5	19	22	65	120	73	26	16	4	8		1	2				33389.0
1954																1	5	5	17	64	54	115	75	14	4	3	2	3	1	1	1			29304.6
1955																	3	34	81	109	83	18	10	10	5	1	2		2	1		5	1	65476.0
1956																5	19	42	55	67	92	49	19	9	6	1	1		1					24090.0
1957																	8	44	71	105	57	34	13	8	5	9	3	2	4	2				46807.0
1958																	12	43	170	83	22	14	6	2	5	1	2	2			2		1	53235.0
1959																4	20	67	69	119	78	7					1							22414.0
1960																2	6	7	13	23	56	79	68	60	40	7	3	2						23936.9
1961																	8	37	100	117	66	21	9	3	4									26089.0
1962																1	10	30	33	73	99	65	29	14	4	3	4							28480.0
1963																7	33	44	85	98	55	21	10	8	1	1	1	1						26882.0
1964																13	26	29	44	90	97	42	14	6	4	1								21215.6
1965																	20	84	104	70	33	21	7	4	10	5	1	2		2	1	1		64436.0

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	3	8401	100.0	9	2.30	4	8391	99.9	18	55.0	2316	5005	59.6	27	1300	25	57	.6
1	0.10	1	8398	100.0	10	3.30	9	8387	99.8	19	79.0	1466	2689	32.0	28	1900	15	32	.3
2	0.20	0	8397	100.0	11	4.70	25	8378	99.7	20	110.0	552	1223	14.6	29	2600	6	17	.2
3	0.30	0	8397	100.0	12	6.70	52	8353	99.4	21	160.0	268	671	8.0	30	3800	6	11	.1
4	0.40	0	8397	100.0	13	9.60	115	8301	98.8	22	230.0	147	403	4.8	31	5300	1	5	.0
5	0.60	0	8397	100.0	14	14.00	163	8186	97.4	23	320.0	87	256	3.0	32	7600	3	4	.0
6	0.80	3	8397	100.0	15	19.00	441	8023	95.5	24	460.0	57	169	2.0	33	11000	1	1	.0
7	1.20	0	8394	99.9	16	27.00	909	7582	90.3	25	650.0	38	112	1.3	34				
8	1.70	3	8394	99.9	17	39.00	1668	6673	79.4	26	920.0	17	74	0.9					

## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## CIMARRON RIVER NEAR MOCANE, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1944	0.00 1	0.30 1	3.81 2	6.39 2	8.37 2	17.30 2	23.10 1	25.00 1	31.00 1	48.00 1
1945	3.40 3	6.93 5	7.46 5	13.50 5	20.00 6	24.30 5	28.70 4	33.50 3	41.00 2	88.50 13
1946	5.80 5	6.27 4	7.23 4	11.10 4	15.40 3	35.70 11	40.00 9	38.00 7	42.50 4	58.10 3
1947	0.00 2	0.67 2	2.70 1	4.29 1	6.07 1	15.10 1	36.80 8	40.70 8	63.50 10	108.00 16
1948	10.00 10	12.30 9	14.90 8	18.80 9	21.60 8	29.50 8	32.00 5	36.60 6	53.90 9	74.20 10
1949	9.00 8	9.67 6	25.10 16	39.90 19	49.30 18	55.80 18	82.60 22	79.30 21	93.30 21	106.00 15
1950	20.00 20	26.70 21	35.00 20	52.10 21	65.20 22	75.60 22	82.30 21	84.00 22	87.80 20	144.00 18
1951	25.00 21	25.00 20	35.00 21	44.60 20	51.10 19	53.90 17	71.40 19	75.30 20	99.20 22	152.00 20
1952	35.00 22	42.00 22	45.60 22	55.60 22	58.90 20	66.10 21	71.80 20	74.70 19	82.00 19	194.00 22
1953	7.00 6	14.30 12	21.90 14	25.80 14	27.10 11	29.20 7	34.40 6	43.70 9	51.60 7	69.40 7
1954	10.00 11	13.00 11	16.00 10	18.90 10	28.70 12	38.50 12	48.70 13	64.90 17	77.10 17	89.90 14
1955	9.00 7	10.20 7	11.80 6	17.40 7	22.80 9	31.10 9	40.80 11	58.60 13	70.40 16	80.70 12
1956	18.00 16	18.00 14	24.00 15	33.30 15	42.30 16	51.60 15	54.50 14	55.70 11	66.00 13	175.00 21
1957	10.00 12	12.30 10	14.90 9	17.50 8	20.00 7	27.10 6	40.60 10	44.90 10	52.90 8	64.50 5
1958	19.00 18	20.00 17	32.10 18	33.50 16	59.40 21	64.00 20	67.10 18	68.70 18	68.90 15	129.00 17
1959	15.00 14	23.70 18	33.40 19	34.60 18	44.60 17	60.80 19	62.20 17	64.10 16	68.70 14	146.00 19
1960	18.00 17	18.00 15	20.40 12	24.30 12	28.60 10	32.20 10	34.90 7	35.30 4	42.30 3	66.30 6
1961	4.90 4	5.83 3	6.99 3	10.40 3	16.30 4	20.50 3	28.10 3	35.80 5	43.80 6	56.90 2
1962	20.00 19	24.70 19	30.90 17	33.50 17	39.20 14	45.60 14	54.50 15	58.60 12	78.10 18	80.60 11
1963	13.00 13	14.70 13	18.90 11	21.00 11	29.20 13	39.90 13	46.70 12	60.90 14	64.70 11	69.90 8
1964	16.00 15	18.70 16	21.70 13	24.60 13	39.90 15	53.20 16	57.80 16	63.50 15	66.00 12	73.70 9
1965	9.60 9	10.30 8	11.90 7	14.00 6	19.90 5	21.70 4	23.40 2	28.00 2	43.60 5	58.40 4

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## CIMARRON RIVER NEAR MOCANE, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1943	461.0 19	262.0 20	230.0 18	230.0 14	161.0 14	113.0 15	102.0 13	92.6 14	79.3 19	57.0 23
1944	1630.0 14	1170.0 9	821.0 8	452.0 10	313.0 9	278.0 7	207.0 9	172.0 9	138.0 9	87.1 11
1945	1810.0 12	638.0 14	306.0 15	184.0 17	127.0 17	85.8 22	76.4 23	69.3 23	70.8 23	59.8 21
1946	1830.0 11	1040.0 12	523.0 13	265.0 13	158.0 15	111.0 16	91.8 18	89.3 18	80.2 18	61.6 19
1947	3390.0 7	2150.0 6	1290.0 6	689.0 7	391.0 7	277.0 8	212.0 8	180.0 8	152.0 8	113.0 8
1948	2440.0 8	1120.0 11	612.0 12	347.0 12	226.0 12	187.0 11	162.0 10	147.0 10	116.0 10	94.4 9
1949	5500.0 5	3190.0 5	1940.0 4	1150.0 4	687.0 5	415.0 6	322.0 6	265.0 6	210.0 5	148.0 4
1950	3670.0 6	1900.0 7	1210.0 7	809.0 6	529.0 6	426.0 5	342.0 5	278.0 5	203.0 6	146.0 5
1951	17900.0 1	7290.0 1	3650.0 2	2070.0 2	1170.0 1	717.0 1	518.0 1	425.0 1	306.0 1	202.0 1
1952	398.0 21	230.0 23	133.0 23	126.0 23	114.0 21	98.9 19	94.2 16	91.9 15	89.3 13	70.8 16
1953	1720.0 13	1320.0 8	794.0 9	459.0 9	289.0 10	204.0 10	154.0 11	124.0 11	103.0 11	91.5 10
1954	1980.0 10	875.0 13	629.0 11	389.0 11	268.0 11	154.0 12	112.0 12	98.1 12	89.9 12	80.3 12
1955	8180.0 4	5750.0 2	4040.0 1	2180.0 1	1140.0 2	702.0 2	500.0 2	393.0 2	290.0 2	179.0 2
1956	994.0 15	506.0 16	262.0 16	150.0 19	100.0 23	96.2 20	83.1 21	79.1 21	72.8 22	65.8 17
1957	2250.0 9	1160.0 10	762.0 10	573.0 8	377.0 8	257.0 9	236.0 7	236.0 7	192.0 7	128.0 7
1958	8670.0 3	3850.0 4	1920.0 5	1030.0 5	866.0 3	504.0 4	373.0 4	292.0 4	222.0 4	146.0 6
1959	652.0 17	290.0 18	179.0 22	127.0 22	101.0 22	86.2 21	84.6 20	83.9 20	77.8 20	61.4 20
1960	345.0 22	245.0 21	201.0 20	139.0 21	117.0 18	114.0 14	101.0 14	94.8 13	84.6 15	65.4 18
1961	451.0 20	275.0 19	216.0 19	160.0 18	117.0 19	110.0 17	93.7 17	87.9 19	84.8 14	71.5 15
1962	578.0 18	427.0 17	262.0 17	196.0 15	177.0 13	130.0 13	101.0 15	90.6 17	82.1 16	78.0 13
1963	968.0 16	511.0 15	323.0 14	186.0 16	139.0 16	105.0 18	88.8 19	91.3 16	81.6 17	73.6 14
1964	341.0 23	233.0 22	197.0 21	145.0 20	117.0 20	85.1 23	82.6 22	76.4 22	75.8 21	58.0 22
1965	10800.0 2	5350.0 3	2600.0 3	1550.0 3	858.0 4	508.0 3	459.0 3	383.0 3	286.0 3	177.0 3

## STATISTICS OF ANNUAL DISCHARGE FOR WATER YEARS, 1943-65

Units of annual Discharge	Mean	Standard Deviation	Coefficient of Variation	Skew Coefficient	First Order Serial Correlation Coefficient
CFS	101	44.8	0.44	0.97	0.05
LOGS of CFS	1.966	0.178		0.581	0.059

## ARKANSAS RIVER BASIN

07157500 CROOKED CREEK NEAR NYE, KANSAS

LOCATION.--Lat 37°02'02", long 100°11'55", in southeast corner sec.1, T.35 S., R.27 W., Meade County, on left bank at upstream side of county road bridge, 6.5 mi (2.0 km) east of Nye, and at mile 14.0 (22.5 km).

DRAINAGE AREA.--1,157 mi<sup>2</sup> (2,997 km<sup>2</sup>).

PERIOD OF RECORD.--August 1942 to September 1973.

AVERAGE DISCHARGE.--29 years (1943-71), 45.3 ft<sup>3</sup>/s (1.20 m<sup>3</sup>/s).

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

## CROOKED CREEK NEAR NYE, KANSAS

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34		
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS		
1943	59						1			1			4	9	5	9	21	34	102	97	16	7															4560.2
1944	2									2	3	10	25	14	15	31	91	27	48	29	5	7	21	11	12	4	7	2								17855.1	
1945							1	1	1			3	7	7	15	4	36	74	94	72	37	7	4					2								6468.8	
1946	44						4	1	1	2	3	4	5	13	21	68	140	45	6	3	1	1	1	1	1	1										4931.0	
1947	40						3	1	1	2	2	2	3	4	16	14	33	70	62	35	19	12	18	8	8	3	3	2	2	1	1					34118.5	
1948	6						1						1	2	11	35	75	111	57	21	8	10	14	6	1	2	3	1	1							12244.7	
1949													1	1	1	1	20	47	96	54	17	23	25	20	23	18	9	4	4	2						40576.2	
1950	2						2				1	1	2	8	7	32	49	93	61	33	9	6	10	19	6	6	4	6	4	2	2					51700.0	
1951																6	35	35	92	58	40	30	12	14	6	9	11	4	3	5	2		3			64087.5	
1952	86						2	2	1			2	5	4	7	5	20	62	111	41	13	4					1									5716.8	
1953	51									3	3	6	11	3	21	27	94	74	31	16	13	9	1			1	1									5474.5	
1954	109						1	1	1	3	1			2	5	29	35	86	65	10	10	3	3	1												4448.0	
1955	37						1				1	7	9	26	11	26	67	105	24	4	6	5	2	6	6	6	5	3	3	1	1	2	1			50450.9	
1956	129									1		3	8	19	43	71	76	13	1		1		1													2467.0	
1957	70										2	1	2	5	11	26	47	47	43	22	17	22	17	10	8	8	2	4	1							18677.7	
1958	7						2	1		1		1	5	5	11	47	125	87	30	8	12	6	6	4	4	1	1						1			16703.4	
1959	38						2	2	3	1	1	3	3	9	16	35	42	99	63	19	16	5	2	2	1	3										6860.8	
1960	56						2	1		1	3	2	2	8	16	28	43	102	54	21	18	4	2	3													5536.5
1961															3	10	13	83	137	54	21	13	11	3	9	3	2	2		1						10971.9	
1962															2	6	8	24	94	135	30	23	22	4	3	4	5	3	1	1						15355.5	
1963	2						3		1	2	4	4	10	17	24	25	74	117	39	13	5	9	7	1	3	2	1					2				17332.1	
1964	36						2	1	4	3	2	4	9	12	19	30	96	117	15	11	2	1	1					1								6026.2	
1965	3									1	1	3	1	7	8	25	62	111	111	11	6	7	5	2	1												6535.4
1966	41		1				2			1	2	5	5	6	8	29	47	95	95	15	3	5	4	1												5384.7	
1967											1	2	1	3	15	35	103	137	41	9	4	8	4			1		1								6234.1	
1968	37						2	1	1		2	8	2	8	11	30	52	156	47	6	2	1														4090.4	
1969	26						1	1					13	18	9	6	5	61	107	57	26	15	6	2	5	3	4										12273.3
1970	28	2						1		2	1	4	7	13	22	23	28	116	90	15	3	5	2	2		1											5724.7
1971	24					1			1	2	6	4	4	11	14	35	47	137	47	21	5	2	3	1													4867.1
1972														8	6	12	22	86	77	54	30	17	14	11	21	2	5		1							20429.8	
1973														3	3	3	10	30	61	59	82	29	11	7	21	20	8	3	5	4	3	3				45366.0	

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	933	11323	100.0	9	0.40	26	10332	91.2	18	17.0	2258	4608	40.7	27	680	34	99	.8
1	0.01	2	10390	91.8	10	0.60	39	10306	91.0	19	25.0	883	2350	20.8	28	1000	27	65	.5
2	0.02	0	10388	91.7	11	0.90	80	10267	90.7	20	38.0	424	1467	13.0	29	1600	17	38	.3
3	0.03	1	10388	91.7	12	1.40	130	10187	90.0	21	57.0	279	1043	9.2	30	2400	11	21	.1
4	0.05	0	10387	91.7	13	2.10	217	10057	88.8	22	87.0	186	764	6.7	31	3600	4	10	.0
5	0.07	1	10387	91.7	14	3.20	317	9840	86.9	23	130.0	169	578	5.1	32	5400	5	6	.0
6	0.10	21	10386	91.7	15	4.80	673	9523	84.1	24	200.0	144	409	3.6	33	8200	1	1	
7	0.20	22	10365	91.5	16	7.30	1467	8850	78.2	25	300.0	96	265	2.3	34				
8	0.30	11	10343	91.3	17	11.00	2775	7383	65.2	26	450.0	70	169	1.5					

## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## CROOKED CREEK NEAR NYE, KANSAS

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1944	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.32 3	1.79 4	2.48 3	4.53 4	12.20 5
1945	0.40 23	0.70 23	1.17 23	1.44 19	1.89 16	4.06 14	5.14 13	6.69 13	8.62 12	48.10 22
1946	0.10 22	0.33 22	0.67 20	0.88 18	3.30 18	8.74 20	9.72 17	9.32 16	10.50 13	17.10 9
1947	0.00 2	0.00 2	0.00 2	0.00 2	0.00 2	0.73 6	2.95 9	4.84 10	13.50 17	54.30 23
1948	0.00 3	0.00 3	0.00 3	0.00 3	0.00 3	1.01 7	1.61 3	3.29 4	6.79 5	57.30 25
1949	2.00 25	5.40 28	6.87 28	8.00 26	9.05 27	11.40 24	14.00 24	15.70 23	25.20 28	36.90 18
1950	10.00 30	10.30 30	12.10 30	15.00 30	20.00 30	23.40 30	23.20 30	24.80 30	100.00 30	146.00 29
1951	0.00 4	0.07 19	0.83 21	2.18 21	4.95 20	8.08 19	10.30 20	18.10 27	23.70 27	103.00 27
1952	5.00 29	6.17 29	6.79 27	10.50 29	13.50 29	16.20 28	16.70 27	18.20 28	19.50 26	173.00 30
1953	0.00 5	0.00 4	0.00 4	0.00 4	0.00 4	0.00 1	1.03 2	1.11 2	4.26 2	12.50 6
1954	0.00 6	0.00 5	0.00 5	0.00 5	0.02 8	3.22 13	5.08 12	9.25 15	15.30 19	17.40 10
1955	0.00 7	0.00 6	0.00 6	0.00 6	0.00 5	0.62 4	2.67 7	4.21 7	4.49 3	8.25 2
1956	0.00 8	0.00 7	0.00 7	0.00 7	1.57 15	4.54 16	5.70 14	6.31 12	7.91 9	138.00 28
1957	0.00 9	0.00 8	0.00 8	0.00 8	0.00 6	0.00 2	0.00 1	0.00 1	1.52 1	6.12 1
1958	0.00 10	0.00 9	0.00 9	0.04 16	5.91 23	13.60 27	13.90 23	13.90 21	15.90 20	54.60 24
1959	0.00 11	0.00 10	0.46 19	3.41 22	6.10 24	7.98 18	9.87 18	11.30 19	13.80 18	45.00 20
1960	0.00 12	0.00 11	0.00 10	0.00 9	1.08 14	9.19 21	10.30 19	11.10 18	13.30 16	22.50 14
1961	0.00 13	0.00 12	0.00 11	0.00 10	0.00 7	2.02 10	3.13 10	4.61 9	7.12 7	11.30 4
1962	4.20 27	4.80 26	7.41 29	8.18 27	8.87 26	10.20 22	13.40 22	16.90 26	18.10 23	32.70 17
1963	2.20 26	2.53 25	3.96 25	5.19 25	8.59 25	12.70 26	17.00 28	16.60 25	18.50 25	41.60 19
1964	0.00 14	0.13 20	0.39 18	1.89 20	4.92 19	11.10 23	14.30 25	15.70 24	17.50 22	47.00 21
1965	0.00 15	0.00 13	0.00 12	0.00 11	0.56 13	1.75 9	2.95 8	4.44 8	8.57 11	15.60 8
1966	0.00 16	0.13 21	1.01 22	4.06 23	5.84 22	12.00 25	12.80 21	13.50 20	18.30 24	20.70 12
1967	0.00 17	0.00 14	0.00 13	0.00 12	0.16 9	0.65 5	2.27 6	3.80 6	6.95 6	10.20 3
1968	0.78 24	0.95 24	1.98 24	5.10 24	5.27 21	7.86 17	9.21 16	10.20 17	11.90 15	17.40 11
1969	0.00 18	0.00 15	0.00 14	0.00 13	0.24 11	1.22 8	2.21 5	3.37 5	8.32 10	22.40 13
1970	0.00 19	0.00 16	0.00 15	0.00 14	0.23 10	2.73 11	14.70 26	15.30 22	16.40 21	24.10 15
1971	0.00 20	0.00 17	0.00 16	0.00 15	0.52 12	3.02 12	4.42 11	5.74 11	7.75 8	14.80 7
1972	0.00 21	0.00 18	0.00 17	0.13 17	2.24 17	4.14 15	5.78 15	7.96 14	10.80 14	28.40 16
1973	5.00 28	5.00 27	5.81 26	9.25 28	11.80 28	17.50 29	18.90 29	21.30 29	37.40 29	87.90 26

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## CROOKED CREEK NEAR NYE, KANSAS

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1943	52.0 31	38.0 31	30.1 30	27.1 29	21.7 29	18.9 29	18.5 28	18.2 28	17.3 27	12.5 28
1944	762.0 14	651.0 13	600.0 11	470.0 8	325.0 7	227.0 7	160.0 7	125.0 7	90.8 8	48.8 9
1945	609.0 17	237.0 18	122.0 21	72.1 23	46.8 23	32.9 24	28.4 21	26.0 20	23.9 19	17.7 18
1946	435.0 20	234.0 20	114.0 22	59.5 25	34.6 28	24.8 27	21.3 27	19.5 27	16.1 28	13.5 26
1947	4290.0 4	2600.0 5	1610.0 5	893.0 5	475.0 6	262.0 6	183.0 6	142.0 6	114.0 6	93.5 6
1948	1290.0 10	675.0 11	409.0 13	238.0 13	143.0 13	102.0 13	76.0 14	60.3 14	53.7 13	33.5 14
1949	1820.0 8	980.0 8	914.0 7	569.0 6	537.0 5	384.0 5	302.0 5	244.0 5	193.0 4	111.0 5
1950	4020.0 5	2770.0 4	1870.0 4	1090.0 4	605.0 4	519.0 4	360.0 4	271.0 4	183.0 5	142.0 2
1951	6720.0 2	4990.0 2	3690.0 2	2420.0 2	1290.0 2	825.0 1	566.0 1	446.0 1	327.0 1	176.0 1
1952	346.0 23	148.0 24	78.9 27	56.4 26	39.3 25	33.1 23	29.1 20	26.3 19	24.1 18	15.6 22
1953	532.0 19	235.0 19	107.0 23	82.4 19	59.2 18	41.1 17	27.6 23	22.7 25	18.7 26	15.0 24
1954	198.0 25	119.0 27	55.1 28	48.5 28	34.9 27	27.5 26	24.0 26	21.9 26	18.8 25	12.2 29
1955	12700.0 1	9380.0 1	4930.0 1	2560.0 1	1340.0 1	791.0 2	533.0 2	402.0 2	268.0 2	138.0 3
1956	171.0 29	79.8 29	34.2 29	16.2 31	14.6 31	13.6 31	12.7 31	11.8 31	10.6 31	6.7 31
1957	1060.0 13	856.0 9	607.0 10	350.0 11	184.0 12	132.0 11	114.0 10	112.0 8	93.3 7	51.2 8
1958	5110.0 3	1950.0 6	960.0 6	546.0 7	287.0 8	199.0 8	139.0 8	107.0 10	76.6 9	45.8 11
1959	410.0 21	300.0 17	185.0 17	103.0 17	62.8 17	38.6 18	33.8 17	31.7 16	26.3 16	18.8 16
1960	195.0 27	164.0 23	107.0 24	72.7 22	51.6 21	36.5 19	29.9 18	25.8 21	22.1 24	15.1 23
1961	1100.0 12	613.0 14	397.0 14	207.0 14	111.0 14	87.5 14	80.6 13	63.1 13	48.5 14	30.1 15
1962	1510.0 9	757.0 10	446.0 8	365.0 10	255.0 9	154.0 9	112.0 11	91.7 11	64.6 12	42.1 12
1963	3480.0 6	1340.0 7	608.0 9	410.0 9	251.0 10	146.0 10	136.0 9	111.0 9	76.3 10	47.5 10
1964	565.0 18	226.0 21	143.0 18	87.1 18	55.3 19	33.7 21	28.0 22	25.8 22	24.4 17	16.5 20
1965	202.0 24	141.0 25	130.0 20	81.3 20	49.4 22	33.5 22	27.0 24	25.0 23	22.2 22	17.9 17
1966	197.0 26	109.0 28	87.6 25	67.0 24	42.2 24	29.2 25	26.5 25	24.4 24	22.2 23	14.8 25
1967	729.0 15	412.0 16	196.0 16	111.0 16	75.8 16	47.2 16	34.0 16	27.9 17	22.4 21	17.1 19
1968	73.0 30	39.7 30	25.6 31	22.6 30	21.1 30	18.6 30	16.6 30	16.1 30	15.8 29	11.2 30
1969	658.0 16	511.0 15	329.0 15	199.0 15	111.0 15	64.4 15	48.8 15	40.8 15	38.1 15	33.6 13
1970	379.0 22	199.0 22	131.0 19	80.3 21	52.6 20	36.2 20	29.7 19	26.9 18	22.7 20	15.7 21
1971	185.0 28	125.0 26	87.3 26	54.6 27	38.0 26	20.7 28	17.7 29	16.4 29	15.3 30	13.3 27
1972	1280.0 11	661.0 12	569.0 12	335.0 12	186.0 11	105.0 12	90.6 12	78.3 12	66.6 11	55.8 7
1973	3350.0 7	3100.0 3	2170.0 3	1590.0 3	975.0 3	569.0 3	395.0 3	303.0 3	209.0 3	124.0 4

## MONTHLY DURATION TABLE

CROOKED CREEK NEAR NYE, KANSAS

PERIOD 1942-1973

CLASS LIMIT	TOTAL PERCENT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
0.00	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0.03	91.7	100.0	100.0	100.0	100.0	98.4	89.1	77.2	71.4	74.2	93.4	97.6	100.0
0.04	91.7	100.0	100.0	100.0	100.0	98.4	89.1	77.1	71.4	74.2	93.4	97.6	100.0
0.06	91.7	100.0	100.0	100.0	100.0	98.4	89.1	77.1	71.4	74.2	93.4	97.6	100.0
0.09	91.7	100.0	100.0	100.0	100.0	98.4	89.1	77.0	71.4	74.2	93.4	97.6	100.0
0.13	91.6	100.0	100.0	100.0	100.0	98.4	88.5	76.6	71.0	74.1	93.2	97.6	100.0
0.20	91.5	100.0	100.0	100.0	100.0	98.4	88.4	76.4	70.9	74.1	93.2	97.6	100.0
0.29	91.3	100.0	100.0	100.0	100.0	98.3	87.6	75.9	69.9	74.1	93.2	97.6	100.0
0.42	91.1	100.0	100.0	100.0	100.0	98.3	86.9	75.3	69.1	73.8	93.1	97.6	100.0
0.61	90.9	100.0	100.0	100.0	100.0	98.2	86.3	74.5	68.3	73.0	93.1	97.6	100.0
0.90	90.7	99.9	100.0	100.0	100.0	98.2	86.1	73.7	67.5	72.5	93.1	97.6	100.0
1.30	90.1	99.8	100.0	100.0	100.0	98.0	83.9	72.8	65.5	70.6	93.0	97.6	100.0
1.90	89.2	99.8	100.0	100.0	100.0	97.3	82.4	70.9	63.3	67.7	91.7	97.5	100.0
2.80	87.8	99.5	100.0	100.0	100.0	95.9	79.2	67.8	60.9	64.8	88.6	97.5	100.0
4.10	85.3	97.4	99.9	99.9	99.6	93.0	75.7	62.7	57.9	60.1	82.0	97.0	99.3
6.00	81.5	94.8	99.1	98.6	97.1	88.0	70.2	56.5	52.3	54.8	75.5	95.6	96.7
8.80	72.3	86.5	93.9	96.4	89.2	72.2	62.2	47.2	44.4	45.3	56.3	87.1	88.9
13.00	56.9	71.5	78.9	84.2	72.8	51.5	50.4	37.1	36.1	35.6	35.6	60.3	70.6
19.00	32.9	37.6	41.9	46.7	36.7	35.2	39.0	30.1	28.0	27.7	18.9	22.5	30.8
27.00	18.6	13.0	15.6	19.3	20.5	25.6	31.2	23.5	20.9	21.6	12.1	8.5	11.0
40.00	12.3	4.3	4.3	11.3	15.1	20.0	24.7	18.6	15.5	17.5	9.5	4.8	5.0
59.00	9.1	2.0	2.4	5.8	11.1	15.3	20.5	13.8	12.1	14.2	7.4	3.7	0.5
86.00	6.8	1.0	1.4	3.5	9.5	11.7	15.5	10.5	8.6	11.7	5.2	3.0	0.2
130.00	5.1	0.0	0.9	2.5	7.8	9.2	10.2	7.9	6.1	10.0	4.2	2.4	0.0
180.00	4.0	0.0	0.6	1.8	5.6	7.5	7.3	6.3	5.1	8.7	3.3	1.8	0.0
270.00	2.6	0.0	0.2	1.6	3.4	6.2	4.8	4.0	3.0	4.1	2.5	1.0	0.0
390.00	1.7	0.0	0.0	1.4	2.2	4.9	3.1	2.6	2.2	2.0	1.9	0.5	0.0
570.00	1.1	0.0	0.0	1.0	1.7	3.6	1.4	1.7	1.1	1.2	0.9	0.2	0.0
840.00	0.7	0.0	0.0	1.0	1.3	2.0	0.9	1.1	0.7	0.5	0.8	0.1	0.0
1200.00	0.5	0.0	0.0	0.4	0.9	1.5	0.5	0.8	0.7	0.1	0.6	0.1	0.0
1800.00	0.3	0.0	0.0	0.2	0.5	1.4	0.2	0.4	0.3	0.0	0.4	0.0	0.0
2600.00	0.2	0.0	0.0	0.0	0.4	0.9	0.1	0.2	0.2	0.0	0.3	0.0	0.0
3800.00	0.1	0.0	0.0	0.0	0.1	0.6	0.0	0.1	0.1	0.0	0.1	0.0	0.0
5600.00	0.1	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8200.00	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0

## ARKANSAS RIVER BASIN

63

07157950 CIMARRON RIVER NEAR BUFFALO, OKLA.

LOCATION.--Lat 36°55'28", long 99°23'56", in NW 1/4 SW 1/4 sec.7, T.28 N., R.20 W., Harper County, on left bank 800 ft (244 m) downstream from unnamed tributary, 6 miles (9.7 km) upstream from Keno Creek, 7 mi (11.3 km) upstream from bridge on U.S. Highway 64, 14 mi (22.5 km) northeast of Buffalo, and at mile 296.0 (476.3 km).

DRAINAGE AREA.--11,930 mi<sup>2</sup> (30,900 km<sup>2</sup>), of which 4,813 mi<sup>2</sup> (12,466 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD.--May 1960 to September 1974.

AVERAGE DISCHARGE.--14 years (1961-74), 159 ft<sup>3</sup>/s (4.50 m<sup>3</sup>/s).

REMARKS.--Extensive diversions for irrigation above station.

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

## CIMARRON RIVER NEAR BUFFALO, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS	
1961	14						2	1		1	2	3			2	2	9	27	9	22	14	61	88	33	30	21	12	2	4	6					46722.9	
1962	12							1		2	6	3	4	4	8	19	5	19	26	24	26	57	64	27	15	10	8	10	12	2	1				69973.5	
1963	10									3	1	1	6	6	7	14	17	23	38	10	38	106	44	12	9	4	9			5	2				61760.5	
1964	80									3		2	5	3	5	6	12	14	20	20	42	60	59	19	13	2		1							24577.7	
1965	23						3	1		1	1	1		1	4		2	15	19	24	41	93	57	21	17	12	10	5	5	6	1	2				78763.4
1966	42				1		1			1		3	3	9	4	10	28	45	36	20	72	60	10	5	4	1	4	2	1	2					60370.1	
1967	17	2	3		3	1	3			2	2	4	2	5	9	13	11	21	30	33	84	56	23	18	11	6	5	1							28288.3	
1968	23	1		1	1		1	1	1	3	3	3	6	5	8	21	15	33	36	76	66	33	9	4	3	3		1	2		1				33927.1	
1969	51			1			1			2	1	1		1	2	1	1	3	3	6	21	42	72	61	46	29	4	4	7	1	4				84284.1	
1970	76			1		2	1	1	1	1	1	1	1	3	2	3	6	9	12	14	17	63	113	18	11	7	1									30746.0
1971	79	2	1	1	2	4	1		1	1	3	2	1	7	10	13	12	24	44	51	32	30	18	21	5										15056.3	
1972	14	1								1	2		3	1	1	5	3	18	25	36	47	55	42	55	26	14	9	4	3		1				56378.2	
1973	18	1				1	1	2			3		1	1	3	2	8	20	22	16	28	37	64	47	18	19	18	9	8	2	9	3	2	2		156698.5
1974	28						1		1		2	1	3	1	2	2	4	2	12	15	34	41	42	105	32	21	5	7	2	2						66818.1

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	487	5113	100.0	9	0.40	17	4570	89.4	18	18.0	319	3944	77.1	27	820	55	156	3.0
1	0.01	7	4626	90.5	10	0.60	30	4553	89.0	19	28.0	372	3625	70.9	28	1200	48	101	1.9
2	0.02	4	4619	90.3	11	1.00	22	4523	88.5	20	43.0	555	3253	63.6	29	1900	22	53	1.0
3	0.03	4	4615	90.3	12	1.50	28	4501	88.0	21	65.0	746	2698	52.8	30	2900	18	31	.6
4	0.05	3	4611	90.2	13	2.20	44	4473	87.5	22	99.0	798	1952	38.2	31	4400	9	13	.2
5	0.07	11	4608	90.1	14	3.40	62	4429	86.6	23	150.0	535	1154	22.6	32	6800	2	4	.0
6	0.10	11	4597	89.9	15	5.20	97	4367	85.4	24	230.0	241	619	12.1	33	10000	2	2	.0
7	0.20	12	4586	89.7	16	7.90	130	4270	83.5	25	350.0	149	378	7.4	34				
8	0.30	4	4574	89.5	17	12.00	196	4140	81.0	26	540.0	73	229	4.5					



## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## CIMARRON RIVER NEAR BUFFALO, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1962	0.00 1	0.00 1	0.10 11	6.23 11	7.42 10	26.10 8	72.80 10	83.20 9	87.90 6	124.00 6
1963	0.00 2	0.00 2	0.00 1	0.31 8	6.59 9	36.00 10	119.00 12	117.00 12	126.00 11	206.00 10
1964	0.00 3	0.00 3	0.00 2	0.42 9	8.05 11	19.50 7	67.50 8	86.10 10	106.00 7	159.00 7
1965	0.00 4	0.00 4	0.00 3	0.00 1	0.00 1	0.22 1	5.01 2	3.93 2	23.40 3	51.40 1
1966	13.00 13	13.00 13	14.60 13	16.10 13	25.80 13	83.30 13	140.00 13	160.00 13	263.00 13	310.00 12
1967	0.00 5	0.00 5	0.00 4	0.00 2	0.58 3	3.95 3	10.70 4	17.10 4	67.80 5	67.50 3
1968	0.00 6	0.00 6	0.00 5	2.57 10	5.22 7	9.56 5	17.10 5	25.40 5	43.10 4	72.80 4
1969	0.00 7	0.00 7	0.00 6	0.00 3	0.88 5	40.30 11	55.50 7	55.40 6	125.00 10	160.00 8
1970	0.00 8	0.00 8	0.00 7	0.00 4	3.74 6	13.90 6	106.00 11	113.00 11	118.00 9	195.00 9
1971	0.00 9	0.00 9	0.00 8	0.00 5	0.55 2	0.70 2	1.97 1	1.83 1	7.60 1	56.40 2
1972	0.00 10	0.00 10	0.00 9	0.00 6	0.70 4	4.24 4	7.19 3	10.00 3	14.20 2	93.60 5
1973	0.62 12	1.77 12	3.76 12	7.36 12	21.30 12	59.10 12	68.20 9	78.20 8	113.00 8	272.00 11
1974	0.00 11	0.00 11	0.00 10	0.00 7	5.29 8	34.40 9	35.00 6	64.50 7	259.00 12	355.00 13

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## CIMARRON RIVER NEAR BUFFALO, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1961	1840.0 10	1340.0 10	1020.0 10	537.0 10	286.0 11	252.0 10	236.0 9	187.0 9	177.0 8	128.0 9
1962	3250.0 7	1780.0 9	1520.0 5	895.0 6	586.0 6	528.0 3	398.0 3	413.0 3	286.0 3	192.0 4
1963	3070.0 8	2510.0 6	1340.0 7	796.0 8	600.0 5	386.0 6	347.0 5	312.0 5	213.0 7	169.0 6
1964	842.0 12	399.0 13	261.0 13	199.0 14	182.0 14	167.0 13	147.0 13	127.0 12	106.0 12	67.2 13
1965	5650.0 3	4370.0 3	2890.0 3	1760.0 2	1310.0 2	753.0 2	599.0 2	499.0 2	356.0 2	216.0 3
1966	6110.0 2	4670.0 2	3020.0 2	1580.0 3	865.0 3	498.0 4	393.0 4	336.0 4	263.0 5	165.0 7
1967	998.0 11	720.0 11	474.0 11	347.0 11	290.0 10	221.0 11	156.0 12	119.0 13	98.6 13	77.5 12
1968	5590.0 4	3570.0 4	1930.0 4	968.0 5	539.0 8	286.0 9	223.0 10	185.0 10	134.0 10	92.7 10
1969	3790.0 6	2730.0 5	1340.0 8	1010.0 4	790.0 4	414.0 5	293.0 7	290.0 6	275.0 4	231.0 2
1970	545.0 13	487.0 12	389.0 12	264.0 12	222.0 12	169.0 12	158.0 11	146.0 11	133.0 11	84.2 11
1971	348.0 14	317.0 14	259.0 14	227.0 13	184.0 13	146.0 14	117.0 14	96.9 14	72.5 14	41.3 14
1972	4960.0 5	2440.0 7	1440.0 6	869.0 7	546.0 7	350.0 7	277.0 8	233.0 8	171.0 9	154.0 8
1973	12500.0 1	7510.0 1	5750.0 1	3980.0 1	2670.0 1	1620.0 1	1140.0 1	910.0 1	634.0 1	430.0 1
1974	2640.0 9	1980.0 8	1120.0 9	695.0 9	477.0 9	350.0 8	313.0 6	271.0 7	257.0 6	183.0 5

## STATISTICS OF ANNUAL DISCHARGE FOR WATER YEARS, 1961-74

Units of annual Discharge	Mean	Standard Deviation	Coefficient of Variation	Skew Coefficient	First Order Serial Correlation Coefficient
CFS	159	97.5	0.61	1.62	0.02
LOGS of CFS	2.132	0.262		-0.189	0.047

ARKANSAS RIVER BASIN

65

07157960 BUFFALO CREEK NEAR LOVEDALE, OKLA.

LOCATION.--Lat 36°46'08", long 99°21'58", in NW 1/4 NW 1/4 sec.4, T.26 N., R.20 W., Harper County, near center of channel on downstream side of pier of bridge on State Highway 34, 1.2 mi (1.9 km) east of Lovedale, 1.3 mi (2.1 km) upstream from Sleeping Bear Creek, and at mile 7.6 (12.2 km).

DRAINAGE AREA.--408 mi<sup>2</sup> (1,057 km<sup>2</sup>).

PERIOD OF RECORD.--Au-ust 1966 to September 1974.

AVERAGE DISCHARGE.-- 8 years (1967-74), 10.5 ft<sup>3</sup>/s (0.297 m<sup>3</sup>/s).

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

BUFFALO CREEK NEAR LOVEDALE, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS	
1967	94		1	1				12	12	7	24	19	40	55	40	27	8	9	3	4	2	1				3		2						1		5218.3
1968	29					7	1	12	11	2	9	20	91	82	26	16	18	12	5	7	3	1	3	1	1	1		4	2	2					4902.9	
1969	79				1				3	1	2	3	2	60	59	31	40	36	22	10	5	2	3	2	1	1		1	1						2676.4	
1970	147		2		1	2		15	15	15	8	24	53	32	13	17	8	5	2	5		1														436.6
1971	295		1		3	5		2	5	4	5	3	13	5	1	2	8	7	1	3	1			1											283.9	
1972	169	1			4	5	2	11	13	14	21	22	49	31	6	4	3	5		2			1		1			1	1						934.1	
1973	123		6		2	4		20	12	5	12	17	19	23	18	7	6	8	10	14	24	21	5	2	1	4	2								3493.9	
1974	30	2			2	1	2	3	5	2	5	8	15	20	25	30	37	61	30	22	21	8	8	7	6	4	2	3	1	1	2	1	1		12849.4	

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	966	2922	100.0	9	0.30	49	1748	59.8	18	9.1	73	314	10.7	27	270	9	21	.7					
1	0.01	3	1956	66.9	10	0.40	86	1699	58.1	19	13.0	67	241	8.2	28	400	4	12	.4					
2	0.02	10	1953	66.8	11	0.60	116	1613	55.2	20	19.0	56	174	6.0	29	590	3	8	.2					
3	0.03	1	1943	66.5	12	0.90	282	1497	51.2	21	28.0	34	118	4.0	30	860	2	5	.1					
4	0.04	13	1942	66.5	13	1.40	308	1215	41.6	22	41.0	20	84	2.9	31	1300	1	3	.1					
5	0.06	24	1929	66.0	14	2.00	188	907	31.0	23	60.0	13	64	2.2	32	1800	1	2	.0					
6	0.09	5	1905	65.2	15	2.90	134	719	24.6	24	88.0	13	51	1.7	33	2700	1	1	.0					
7	0.10	78	1900	65.0	16	4.20	128	585	20.0	25	130.0	10	38	1.3	34									
8	0.20	74	1822	62.4	17	6.20	143	457	15.6	26	190.0	7	28	1.0										

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

BUFFALO CREEK NEAR LOVEDALE, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1968	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.66 6	0.90 5	1.15 5	17.00 6
1969	0.00 2	0.00 2	0.00 2	0.00 2	0.00 2	1.84 7	2.02 7	2.26 7	3.52 6	12.40 5
1970	0.00 3	0.00 3	0.00 3	0.00 3	0.00 3	0.12 6	0.35 5	0.56 4	0.95 4	5.46 4
1971	0.00 4	0.00 4	0.00 4	0.00 4	0.00 4	0.00 2	0.00 1	0.00 1	0.00 1	1.11 1
1972	0.00 5	0.00 5	0.00 5	0.00 5	0.00 5	0.00 3	0.00 2	0.19 3	0.58 3	2.70 2
1973	0.00 6	0.00 6	0.00 6	0.00 6	0.00 6	0.00 4	0.00 3	0.02 2	0.04 2	3.39 3
1974	0.00 7	0.00 7	0.00 7	0.00 7	0.00 7	0.00 7	0.07 5	0.12 4	1.60 6	22.20 7

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

BUFFALO CREEK NEAR LOVEDALE, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1967	3830.0 1	1390.0 1	602.0 2	286.0 2	157.0 2	80.8 2	54.2 2	40.7 2	27.2 2	14.3 2
1968	752.0 3	422.0 3	196.0 3	161.0 3	83.2 3	45.3 3	37.0 3	28.8 3	25.7 3	13.4 3
1969	456.0 4	190.0 5	85.5 6	40.1 6	24.7 6	15.5 5	12.8 5	12.3 5	10.3 5	7.3 5
1970	30.0 8	18.5 8	12.5 7	8.8 7	7.7 7	4.9 7	3.7 7	3.1 7	2.3 7	1.2 7
1971	68.0 7	27.8 7	12.0 8	8.6 8	5.5 8	2.9 8	2.0 8	2.2 8	1.6 8	0.8 8
1972	322.0 5	191.0 4	87.0 5	41.4 5	25.3 5	13.2 6	9.2 6	7.1 6	4.8 6	2.6 6
1973	265.0 6	178.0 6	96.4 4	63.4 4	47.5 4	38.1 4	29.5 4	22.5 4	15.3 4	9.6 4
1974	2180.0 2	1130.0 2	640.0 1	354.0 1	185.0 1	93.9 1	62.6 1	48.4 1	42.6 1	35.2 1

## ARKANSAS RIVER BASIN

07158000 CIMARRON RIVER NEAR WAYNOKA, OKLA.

LOCATION.--Lat 36°31'02", long 98°52'45", near center of sec.35, T.24 N., R.16 W., Woods County, near left bank on downstream side of bridge on U.S. Highway 281, 0.8 mi (1.39 km) downstream from Main Creek, 5 mi (8.0 km) south of Waynoka, and at mile 247.0 (397 km).

DRAINAGE AREA.--13,334 mi<sup>2</sup> (34,535 km<sup>2</sup>), of which 4,830 mi<sup>2</sup> (12,510 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD.--October 1937 to September 1974.

AVERAGE DISCHARGE.--37 years (1938-74), 356 ft<sup>3</sup>/s (10.1 m<sup>3</sup>/s).

REMARKS.--Extensive diversions for irrigation above station.

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

## CIMARRON RIVER NEAR WAYNOKA, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34		
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS		
1938	1												1	71	7	35	7	10	25	59	28	28	20	17	14	13	13	4	2	3	5	1		1		264817.0	
1939	30										10	2	3	6	9	27	30	48	51	54	25	22	21	8	4	7	4	2	1						63335.0		
1940	57										26	43	16	11	28	21	24	28	10	16	18	16	14	11	4	3	1	1	2						64828.0		
1941											12	13	6	4	11	8	8	25	28	49	56	42	26	22	20	9	11	8	1	3	3				178924.0		
1942													1	3	3	5	9	16	26	18	44	90	52	35	21	17	8	8	1	4	1	2	1		256304.0		
1943	51										26	10	2	6	7	8	13	18	37	56	49	37	16	9	9	6	2	2							61979.0		
1944	21										38	21	17	13	12	14	22	11	38	27	27	28	14	12	12	12	16	6	3	1		1			145637.0		
1945							1	7	11	9	3	3	4	1	15	20	11	21	25	63	44	44	36	24	12	7	1	1		2						81009.4	
1946	31												12																							47033.4	
1947	11										12	16	4	4	1	3	3	2	7	1	8	5	23	57	59	46	31	20	14	10	12	7	1	1		170270.7	
1948											14	28	2	4	2	8	15	8	13	11	16	32	48	30	25	29	26	17	11	7	8	5	5	1	1	129333.9	
1949											8	1	2	2	1	7	1	4	13	14	42	34	54	38	47	32	14	22	8	9	5	4	3			360071.4	
1950																	1	8	14	43	21	56	107	22	30	14	10	11	12	8	3	3		2		302919.0	
1951																		4	8	17	68	119	52	20	20	19	12	6	7	3	6	3	1			373466.0	
1952	54												4	7	2	4	4	7	3	3	4	4	4	1	3	20	52	10	50	15	4	6	3	2		77438.2	
1953	42										23	17	7	6	7	6	10	2	6	17	10	20	45	42	45	31	10	7	6	4	1	1			39504.6		
1954	27										18	9	2	3	3	4	6	9	17	33	43	72	67	22	11	9	4	3	1	1					34507.1		
1955	8										4	20	6	22	13	33	27	11	27	18	22	28	27	17	16	15	11	10	11	3	6	1	2	4	3	183884.8	
1956	60												8																							19623.1	
1957	31										2	11	5	2	1	19	38	17	4	12	13	16	20	19	22	20	19	19	11	8	11	9	9	4	1	2	394405.2
1958														1	6																					130221.3	
1959	7										1	1	1	1	1	4	14	8	16	29	22	32	36	61	49	37	23	9	7	2		2	1			94220.0	
1960														5	8	9	13	15	16	36	54	61	55	47	20	11	4	5	6		1				156576.4		
1961													1	1	1	1	3	13	14	14	34	61	76	56	37	25	17	6	4		1				84193.0		
1962	14													5	8	7	16	18	7	14	19	28	78	59	32	20	10	11	9	4	1		1			115777.2	
1963													2	2	1	2																				86331.8	
1964	34										9	14	1	7	5	4	5	5	8	14	20	19	43	51	60	53	11	1	1		1				32996.1		
1965											9	14		1																						102095.3	
1966	51										5	2		3	1																					84884.8	
1967													2	3	4		6	6	15	24	26	28	91	72	39	22	12	6	4	4		1			40903.9		
1968	5										1	7	3	3	4	2	4	12	8	16	23	27	65	80	50	26	13	6	5	2	1	2	1			48296.3	
1969	25	1									3	1		2	3	5	7	5	1	2	1	6	8	57	61	59	63	35	7	6	3	1	1	1		95906.2	
1970	85										2	3	1	1	1	3	5	6	6	3	8	4	12	46	129	26	11	5	4	1		1				38860.2	
1971	104												4	2	4	3	2	6	14	19	35	53	38	30	21	14	12	4							17040.8		
1972	29																1	9	14	26	24	33	61	57	54	29	10	9	4	1	2				57242.1		
1973	42												1	2	3	11	7	8	8	6	28	25	28	74	44	17	15	15	9	5	10	2	2	1		214597.1	
1974	37																1	2	3	5	12	18	26	48	87	71	19	13	6	5	3	1	1	4		157433.5	

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	857	13514	100.0	9	0.60	95	12306	91.1	18	38.0	1193	9180	67.9	27	2600	120	320	2.3
1	0.01	1	12657	93.7	10	0.90	186	12211	90.4	19	61.0	1536	7987	59.1	28	4100	85	200	1.4
2	0.02	0	12656	93.7	11	1.40	247	12025	89.0	20	97.0	1800	6451	47.7	29	6500	50	115	.8
3	0.03	4	12656	93.7	12	2.30	234	11778	87.2	21	150.0	1783	4651	34.4	30	10000	42	65	.4
4	0.05	1	12652	93.6	13	3.70	284	11544	85.4	22	250.0	1034	2868	21.2	31	17000	15	23	.1
5	0.08	0	12651	93.6	14	5.90	348	11260	83.3	23	390.0	633	1834	13.6	32	26000	6	8	.0
6	0.10	112	12651	93.6	15	9.40	432	10912	80.7	24	630.0	406	1201	8.9	33	42000	2	2	.0
7	0.20	174	12539	92.8	16	15.00	562	10480	77.5	25	1000.0	267	795	5.9	34				
8	0.40	59	12365	91.5	17	24.00	738	9918	73.4	26	1600.0	208	528	3.9					

## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## CIMARRON RIVER NEAR WAYNOKA, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1939	0.00 1	2.33 29	4.86 30	12.60 29	26.90 27	35.30 21	49.70 18	62.30 16	66.90 12	740.00 31
1940	0.00 2	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.20 1	0.72 1	11.60 4	147.00 11
1941	0.00 3	0.33 24	0.71 24	1.57 23	2.33 14	39.50 22	43.80 15	62.00 15	91.10 15	222.00 16
1942	1.00 28	1.67 26	2.71 26	23.90 33	84.20 34	161.00 35	167.00 32	179.00 34	649.00 36	755.00 32
1943	2.00 30	3.67 31	7.14 32	23.50 31	66.50 33	90.00 29	93.50 24	110.00 24	206.00 28	490.00 28
1944	0.00 4	0.00 2	0.00 2	0.00 2	0.40 10	0.98 6	1.48 6	1.82 4	10.20 3	110.00 7
1945	0.00 5	0.00 3	0.29 21	0.64 18	2.97 15	23.80 15	81.30 22	75.50 19	104.00 17	437.00 27
1946	0.10 23	0.20 21	0.24 20	0.31 16	7.35 18	24.30 16	36.20 14	56.60 14	103.00 16	189.00 12
1947	0.00 6	0.00 4	0.00 3	0.00 3	5.74 16	78.10 28	102.00 25	140.00 31	158.00 25	276.00 18
1948	0.00 7	0.00 5	0.00 4	0.02 12	0.07 7	0.14 5	0.61 5	11.70 6	25.30 9	370.00 23
1949	0.60 26	0.67 25	0.74 25	1.41 22	6.51 17	34.10 20	83.20 23	80.10 20	218.00 31	397.00 26
1950	34.00 36	34.00 36	35.70 35	63.60 35	115.00 35	156.00 34	170.00 33	177.00 33	304.00 32	994.00 34
1951	14.00 34	15.70 34	17.30 34	23.60 32	32.70 29	150.00 33	170.00 34	173.00 32	212.00 30	785.00 33
1952	25.00 35	29.30 35	37.90 36	84.00 36	121.00 36	173.00 36	173.00 35	181.00 35	206.00 29	1020.00 35
1953	0.00 8	0.00 6	0.00 5	0.00 4	0.00 2	0.02 4	0.20 2	14.90 8	19.20 7	142.00 10
1954	0.00 9	0.00 7	0.00 6	0.13 14	1.19 11	22.50 14	30.50 13	50.20 13	58.40 11	106.00 6
1955	0.00 10	0.00 8	0.00 7	0.00 5	0.10 8	1.26 9	2.37 7	3.25 5	14.50 5	70.70 2
1956	0.00 11	0.00 9	0.07 18	0.28 15	1.92 13	4.55 10	11.90 9	12.90 7	24.70 8	515.00 29
1957	0.00 12	0.00 10	0.00 8	0.00 6	0.00 3	0.00 2	0.40 4	0.95 2	4.42 1	50.90 1
1958	1.60 29	2.17 28	5.13 31	24.50 34	49.90 32	98.30 30	106.00 27	111.00 25	161.00 26	1150.00 36
1959	2.60 31	2.77 30	3.97 27	4.77 26	7.41 19	18.90 12	44.60 16	66.50 17	105.00 18	339.00 22
1960	0.00 13	0.00 11	0.00 9	0.67 19	31.30 28	67.70 26	69.10 19	98.50 22	378.00 34	384.00 25
1961	4.00 33	4.67 33	7.43 33	14.20 30	45.90 31	123.00 32	116.00 30	134.00 30	136.00 22	318.00 21
1962	1.00 27	1.83 27	4.41 28	6.25 27	8.23 20	41.80 23	107.00 28	117.00 27	146.00 23	224.00 17
1963	0.00 14	0.00 12	0.00 10	1.33 20	16.50 24	61.00 24	131.00 31	133.00 29	151.00 24	315.00 19
1964	0.10 24	0.23 22	0.57 23	1.36 21	22.30 26	28.80 19	73.00 20	90.70 21	107.00 19	215.00 15
1965	0.00 15	0.00 13	0.00 11	0.09 13	0.20 9	8.53 11	47.90 17	48.60 12	68.10 13	115.00 9
1966	3.50 32	4.10 32	4.67 29	10.70 28	43.70 30	122.00 31	176.00 36	199.00 36	355.00 33	378.00 24
1967	0.00 16	0.00 14	0.00 12	0.00 7	0.00 4	1.03 7	9.81 8	20.90 10	68.50 14	89.70 4
1968	0.31 25	0.33 23	0.35 22	2.15 24	10.50 23	20.70 13	28.80 12	36.80 11	57.10 10	112.00 8
1969	0.00 17	0.00 15	0.09 19	2.31 25	8.76 21	73.30 27	104.00 26	119.00 28	180.00 27	212.00 14
1970	0.00 18	0.00 16	0.00 13	0.00 8	9.52 22	25.60 18	108.00 29	112.00 26	119.00 20	209.00 13
1971	0.00 19	0.00 17	0.00 14	0.00 9	0.00 5	0.00 3	0.23 3	1.30 3	5.06 2	81.60 3
1972	0.00 20	0.00 18	0.00 15	0.00 10	0.00 6	1.17 8	12.90 10	15.30 9	18.10 6	99.20 5
1973	0.00 21	0.00 19	0.00 16	0.57 17	21.50 25	63.20 25	75.60 21	104.00 23	130.00 21	315.00 20
1974	0.00 22	0.00 20	0.00 17	0.00 11	1.40 12	24.70 17	27.30 11	73.10 18	511.00 35	600.00 30

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## CIMARRON RIVER NEAR WAYNOKA, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1938	42200.0 2	21900.0 4	12100.0 5	7230.0 6	4150.0 5	3170.0 5	2280.0 5	1880.0 5	1400.0 4	726.0 5
1939	6640.0 25	3260.0 26	1590.0 28	1090.0 25	814.0 24	475.0 24	461.0 22	401.0 22	295.0 25	174.0 26
1940	8790.0 19	3900.0 21	2120.0 21	1210.0 22	929.0 22	669.0 19	585.0 18	492.0 18	333.0 21	177.0 25
1941	12700.0 14	7930.0 13	3990.0 17	2130.0 18	2070.0 10	1680.0 9	1360.0 8	1100.0 8	867.0 8	490.0 9
1942	27400.0 5	18500.0 6	9620.0 7	5610.0 7	3130.0 8	1720.0 8	1310.0 9	1020.0 10	860.0 9	708.0 6
1943	7850.0 21	3610.0 22	1700.0 26	965.0 26	726.0 25	408.0 27	325.0 27	269.0 28	206.0 27	170.0 27
1944	17600.0 9	7560.0 14	4060.0 16	3370.0 9	2210.0 9	1610.0 10	1130.0 11	1070.0 9	766.0 10	398.0 13
1945	7170.0 23	3080.0 27	1530.0 30	964.0 27	581.0 28	411.0 26	388.0 25	340.0 25	289.0 26	222.0 23
1946	4110.0 31	2760.0 30	1250.0 33	784.0 32	436.0 34	293.0 34	216.0 34	207.0 33	182.0 29	129.0 30
1947	14100.0 13	8870.0 11	4930.0 11	2890.0 11	1720.0 12	1530.0 11	1160.0 10	901.0 11	635.0 12	466.0 10
1948	14600.0 12	8180.0 12	4570.0 12	2280.0 15	1480.0 14	1340.0 12	951.0 12	720.0 13	649.0 11	353.0 15
1949	19000.0 8	16300.0 7	13000.0 4	7250.0 5	6070.0 5	3710.0 3	2850.0 3	2280.0 3	1700.0 3	986.0 3
1950	36400.0 3	24200.0 1	16500.0 1	9680.0 2	5710.0 4	3560.0 4	2570.0 4	1970.0 4	1350.0 5	830.0 4
1951	27500.0 4	20600.0 5	13800.0 3	9790.0 1	5740.0 3	4820.0 2	3340.0 2	2610.0 2	1840.0 2	1020.0 2
1952	3770.0 32	2370.0 32	1740.0 24	1550.0 21	958.0 21	602.0 22	497.0 21	422.0 21	340.0 20	212.0 24
1953	2620.0 35	1940.0 34	1370.0 32	923.0 29	517.0 30	392.0 28	264.0 31	214.0 32	159.0 33	108.0 32
1954	6020.0 27	3470.0 24	1810.0 23	911.0 30	557.0 29	313.0 33	221.0 33	184.0 34	147.0 34	94.5 34
1955	25200.0 6	23600.0 2	14300.0 2	7820.0 3	4120.0 6	2870.0 6	1990.0 6	1500.0 6	992.0 6	504.0 8
1956	2350.0 36	946.0 36	561.0 36	375.0 36	224.0 36	167.0 36	131.0 36	99.3 37	75.7 37	53.6 36
1957	5160.0 1	21900.0 3	11800.0 6	7250.0 4	5800.0 2	5090.0 1	3980.0 1	3050.0 1	2130.0 1	1080.0 1
1958	8550.0 20	5400.0 18	3390.0 18	2390.0 12	1910.0 11	1340.0 13	891.0 13	730.0 12	583.0 13	357.0 14
1959	10500.0 11	10400.0 8	4980.0 10	2340.0 13	1210.0 18	625.0 21	452.0 23	366.0 24	383.0 18	258.0 19
1960	15000.0 17	7200.0 15	4080.0 15	2240.0 16	1320.0 15	844.0 15	710.0 15	635.0 15	561.0 14	428.0 12
1961	4490.0 29	2920.0 29	1640.0 27	827.0 31	514.0 31	458.0 25	433.0 24	375.0 23	331.0 22	231.0 22
1962	11100.0 16	5430.0 17	4170.0 14	2220.0 17	1140.0 19	743.0 17	605.0 17	694.0 14	478.0 16	317.0 16
1963	7210.0 22	4600.0 19	2410.0 20	1610.0 20	1110.0 20	656.0 20	516.0 20	472.0 19	372.0 23	237.0 20
1964	3600.0 33	1610.0 35	842.0 35	410.0 35	220.0 37	165.0 37	144.0 35	124.0 35	110.0 35	90.2 35
1965	9820.0 18	4560.0 20	2890.0 19	1760.0 19	1310.0 16	788.0 16	620.0 16	546.0 17	401.0 17	280.0 17
1966	11500.0 15	7100.0 16	4410.0 13	2300.0 14	1240.0 17	694.0 18	548.0 19	465.0 20	354.0 19	233.0 21
1967	6320.0 26	3030.0 28	1480.0 31	741.0 33	495.0 32	378.0 29	282.0 30	214.0 30	160.0 32	112.0 31
1968	5620.0 28	3510.0 23	1840.0 22	1100.0 24	628.0 26	355.0 31	316.0 28	270.0 27	205.0 28	132.0 29
1969	6830.0 24	3270.0 25	1700.0 25	1180.0 23	905.0 23	488.0 23	328.0 26	311.0 26	304.0 24	263.0 18
1970	4200.0 30	2040.0 33	1120.0 34	614.0 34	495.0 33	320.0 32	251.0 32	216.0 31	180.0 30	106.0 33
1971	460.0 37	438.0 37	386.0 37	348.0 37	247.0 35	173.0 35	130.0 37	107.0 36	78.0 36	46.7 37
1972	3380.0 34	2400.0 31	1550.0 29	946.0 28	596.0 27	376.0 30	293.0 29	247.0 29	178.0 31	156.0 28
1973	22400.0 7	10000.0 9	7710.0 8	5240.0 8	3380.0 7	2280.0 7	1610.0 7	1270.0 7	890.0 7	588.0 7
1974	15600.0 10	9270.0 10	5390.0 9	2980.0 10	1540.0 13	876.0 14	723.0 14	615.0 16	517.0 15	431.0 11

## MONTHLY DURATION TABLE

CIMARRON RIVER NEAR WAYNOKA, OKLAHOMA

PERIOD 1937-1974

CLASS LIMIT	TOTAL PERCENT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
0.00	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0.01	93.7	99.3	100.0	100.0	100.0	97.7	94.9	84.2	83.9	80.7	87.3	96.4	100.0
0.02	93.7	99.3	100.0	100.0	100.0	97.7	94.9	84.2	83.8	80.7	87.3	96.4	100.0
0.03	93.7	99.3	100.0	100.0	100.0	97.7	94.9	84.2	83.8	80.7	87.3	96.4	100.0
0.05	93.6	99.3	100.0	100.0	100.0	97.7	94.8	84.0	83.7	80.7	87.3	96.4	100.0
0.09	93.6	99.3	100.0	100.0	100.0	97.7	94.8	84.0	83.7	80.7	87.3	96.4	100.0
0.14	92.8	99.3	100.0	100.0	100.0	97.5	94.6	82.0	82.7	78.8	84.2	95.4	100.0
0.22	92.0	99.3	100.0	100.0	100.0	97.4	93.8	80.6	82.0	76.5	81.6	93.1	100.0
0.36	91.5	99.3	100.0	100.0	100.0	97.4	93.5	79.9	81.3	75.1	80.6	91.8	100.0
0.57	91.1	99.3	100.0	100.0	100.0	96.9	92.9	79.4	80.8	73.2	80.0	90.9	100.0
0.90	90.4	99.3	100.0	100.0	100.0	96.1	92.3	78.6	79.5	71.4	77.9	89.9	99.9
1.40	89.0	99.0	100.0	100.0	100.0	95.2	90.8	75.0	77.7	67.8	76.3	86.9	99.7
2.30	87.2	97.5	100.0	100.0	99.9	93.3	88.9	73.8	75.4	66.7	72.6	83.7	94.9
3.70	85.4	95.7	100.0	99.8	98.9	91.0	87.7	72.7	73.1	65.8	70.5	79.5	91.3
5.90	83.3	91.9	99.2	99.2	97.9	88.1	85.4	70.6	70.6	64.2	67.4	78.7	87.6
9.40	80.7	90.8	98.7	97.6	92.6	84.1	82.8	67.9	66.9	61.8	62.6	77.4	87.2
15.00	77.5	89.4	97.7	96.5	88.2	79.2	80.2	64.9	61.9	58.0	56.1	73.8	86.3
24.00	73.4	86.7	96.7	95.1	81.4	73.3	76.5	59.4	55.9	53.8	51.7	69.5	82.4
38.00	67.9	81.8	92.4	90.8	72.6	67.7	71.3	54.8	50.0	48.8	47.4	64.0	75.3
61.00	59.1	70.0	83.6	78.2	60.2	60.8	63.8	49.1	41.6	40.3	42.8	55.0	65.6
97.00	47.7	53.4	62.9	61.5	51.8	53.9	56.1	42.5	32.4	33.7	33.8	43.2	49.0
150.00	34.4	31.0	40.6	40.1	39.4	44.9	47.1	35.0	25.2	28.6	24.1	28.2	29.6
250.00	21.2	10.5	17.5	22.9	27.6	33.5	36.6	27.0	19.8	22.2	17.2	10.1	9.9
390.00	13.6	3.5	7.1	12.2	17.7	24.3	28.8	20.5	15.1	16.1	11.0	4.5	1.8
630.00	8.9	0.7	3.7	4.9	12.2	18.1	21.6	13.9	10.0	11.4	7.1	2.4	0.5
1000.00	5.9	0.3	1.8	2.7	8.5	13.6	15.1	8.3	6.4	7.7	4.6	1.3	0.3
1600.00	3.9	0.0	1.1	1.8	5.8	10.3	10.3	4.6	4.1	4.8	3.5	0.5	0.2
2600.00	2.4	0.0	0.5	1.0	3.3	6.9	6.2	3.1	2.4	2.4	2.1	0.3	0.1
4100.00	1.5	0.0	0.1	0.8	1.8	4.4	4.3	1.7	1.7	1.4	1.3	0.1	0.0
6500.00	0.9	0.0	0.0	0.2	1.1	3.3	2.5	0.9	0.6	0.9	0.7	0.0	0.0
10000.00	0.5	0.0	0.0	0.2	0.4	2.3	1.1	0.5	0.3	0.5	0.5	0.0	0.0
17000.00	0.2	0.0	0.0	0.0	0.2	1.0	0.3	0.3	0.0	0.1	0.2	0.0	0.0
26000.00	0.1	0.0	0.0	0.0	0.1	0.3	0.1	0.3	0.0	0.0	0.0	0.0	0.0
42000.00	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0

## STATISTICS OF ANNUAL DISCHARGE FOR WATER YEARS, 1938-74

Units of annual Discharge	Mean	Standard Deviation	Coefficient of Variation	Skew Coefficient	First Order Serial Correlation Coefficient
CFS	356	280	0.79	1.26	0.19
LOGS of CFS	2.422	0.351		-0.120	0.137



## ARKANSAS RIVER BASIN

69

07158400 SALT CREEK NEAR OKEENE, OKLA.

LOCATION.--Lat 36°06'11", long 98°11'36", in SW 1/4 sec.20, T.19 N., R.9 W., on downstream side of left bank pier of county road bridge, 2.2 mi (3.5 km) downstream from Spring Creek, 7.0 mi (11.3 km) east of Okeene, and at mile 2.2 (3.5 km).

DRAINAGE AREA.--196 mi<sup>2</sup> (508 km<sup>2</sup>).

PERIOD OF RECORD.--June 1961 to September 1967.

AVERAGE DISCHARGE.--6 years (1962-67), 32.1 ft<sup>3</sup>/s (0.909 m<sup>3</sup>/s).

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

SALT CREEK NEAR OKEENE, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS	
1962										7	16	12	27	35	18	50	54	53	37	30	6	3	3	4	5	2					1		1		15815.4	
1963										3	4	13	65	82	70	59	27	10	5	6	4	1	2	4	2	1	2	1		3	1				9451.8	
1964					6	2	7	20	10	21	22	51	78	72	25	16	6	9	5	3	4	3				1	1		1	3					6917.8	
1965								1	15	10	16	20	18	41	82	68	32	17	10	6	1	4	4	3	1	5	5	2	1	1			1	1		20144.0
1966		2	7	5	5	1	10	16	15	20	19	44	103	72	24	5	3	3	2	3	2	1			1			1		1					3657.3	
1967								2	5	67	81	68	32	22	18	23	14	11	3	2	3	2	3	1	1	1	1	1	1	2		1	1		14280.8	

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	2191	100.0	9	1.60	129	2059	94.0	18	30.0	63	219	10.0	27	550	4	24	1.0					
1	0.09	2	2191	100.0	10	2.30	167	1930	88.1	19	42.0	48	156	7.1	28	760	10	20	.9					
2	0.10	7	2189	99.9	11	3.10	260	1763	80.5	20	57.0	17	108	4.9	29	1100	4	10	.4					
3	0.20	5	2182	99.6	12	4.30	340	1503	68.6	21	79.0	15	91	4.2	30	1500	1	6	.2					
4	0.30	11	2177	99.4	13	6.00	312	1163	53.1	22	110.0	14	76	3.5	31	2000	1	5	.2					
5	0.50	3	2166	98.9	14	8.30	226	851	38.8	23	150.0	11	62	2.8	32	2800	2	4	.1					
6	0.60	17	2163	98.7	15	11.00	189	625	28.5	24	210.0	9	51	2.3	33	3800	2	2	.0					
7	0.90	39	2146	97.9	16	16.00	119	436	19.9	25	290.0	11	42	1.9	34									
8	1.20	48	2107	96.2	17	22.00	98	317	14.5	26	400.0	7	31	1.4										

## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

SALT CREEK NEAR OKEENE, OKLAHOMA

YEAR	1		3		7		14		30		60		90		120		183		ANNUAL	
1963	1.70	4	1.97	4	2.37	5	2.48	3	4.34	4	5.98	5	7.04	5	7.61	5	7.62	3	15.80	2
1964	1.20	3	1.33	3	1.93	3	2.54	4	3.56	3	5.30	3	5.98	3	6.73	3	17.70	5	30.60	4
1965	0.40	2	0.40	2	0.41	2	0.57	2	1.22	2	2.36	2	2.99	2	2.78	2	15.60	4	45.20	5
1966	1.80	5	2.07	5	2.21	4	3.99	5	4.88	5	5.35	4	6.23	4	6.94	4	7.04	2	23.60	3
1967	0.09	1	0.10	1	0.14	1	0.26	1	1.04	1	2.05	1	2.29	1	2.71	1	2.89	1	7.98	1

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

SALT CREEK NEAR OKEENE, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL										
1962	3330.0	3	1290.0	3	597.0	3	312.0	3	224.0	3	138.0	3	102.0	3	87.1	3	63.3	3	43.3	2
1963	1110.0	4	714.0	4	335.0	4	160.0	5	134.0	4	83.9	4	70.8	4	62.2	4	44.1	4	25.9	1
1964	1080.0	5	670.0	5	300.0	5	165.0	4	93.5	5	53.5	5	37.9	5	29.8	5	22.4	5	18.9	5
1965	3830.0	2	2670.0	1	1320.0	1	668.0	1	375.0	1	197.0	1	135.0	2	103.0	2	73.4	2	55.2	1
1966	838.0	6	352.0	6	155.0	6	102.0	6	54.0	6	29.5	6	21.2	6	17.3	6	13.1	6	10.0	6
1967	4370.0	1	2220.0	2	975.0	2	468.0	2	280.0	2	190.0	2	139.0	1	107.0	1	75.1	1	39.1	3



## ARKANSAS RIVER BASIN

07158500 PREACHER CREEK NEAR DOVER, OKLA.

LOCATION.--Lat 36°02'39", long 98°00'45", in NW 1/4 NW 1/4 sec.13, T.18 N., R.8 W., on right bank 75 ft (1.9 m) downstream from highway bridge, 1.4 mi (2.3 km) upstream from mouth, and 7.0 mi (11.3 km) northwest of Dover.

DRAINAGE AREA.--14.5 mi<sup>2</sup> (37.6 km<sup>2</sup>).

PERIOD OF RECORD.--October 1951 to May 1957.

AVERAGE DISCHARGE.--5 years (1952-56), 0.689 ft<sup>3</sup>/s (0.020 m<sup>3</sup>/s).

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

PREACHER CREEK NEAR DOVER, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS
1952	119		1		2		4	2	10	3	2	5	2	18	108	59	12	7	6	3	3	1	2												272.2
1953	174	3	1	1		5	1	10	20	24	45	21	21	17	6	3	3	2	2	2					1		1	1				1			283.6
1954	130		1	2	1		5	13	23	33	48	38	35	16	6	2	3	3	1	3				1									1		170.7
1955	215	3	8	3	6	4	15	3	47	18	7	5	7	1	1	4	2		1	4		5	2				2				1	1			322.6
1956	144	1	3	1	1	1	7	3	16	16	31	28	49	28	22	3	2	1	2		2	2			1	1				1				209.9	
CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	
0	0.00	782	1827	100.0	9	0.20	80	861	47.1	18	2.5	14	56	3.1	27	30	1	5	.2																
1	0.01	4	1045	57.2	10	0.30	97	781	42.7	19	3.3	10	42	2.3	28	40	1	4	.2																
2	0.02	16	1041	57.0	11	0.40	131	684	37.4	20	4.4	8	32	1.8	29	53	1	3	.1																
3	0.03	7	1025	56.1	12	0.50	117	553	30.3	21	5.8	9	24	1.3	30	70		2	.1																
4	0.04	11	1018	55.7	13	0.60	103	436	23.9	22	7.6	3	15	0.8	31	92	2	2	.1																
5	0.05	5	1007	55.1	14	0.80	164	333	18.2	23	10.0	1	12	0.7	32																				
6	0.06	36	1002	54.8	15	1.10	78	169	9.3	24	13.0	3	11	0.6	33																				
7	0.09	9	966	52.9	16	1.50	21	91	5.0	25	18.0	2	8	0.4	34																				
8	0.10	96	957	52.4	17	1.90	14	70	3.8	26	23.0	1	6	0.3																					

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

PREACHER CREEK NEAR DOVER, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1953	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.01 3	0.35 3
1954	0.00 2	0.00 2	0.00 2	0.00 2	0.00 2	0.00 2	0.10 4	0.22 4	0.39 4	0.86 4
1955	0.00 3	0.00 3	0.00 3	0.00 3	0.00 3	0.00 3	0.00 2	0.00 2	0.00 1	0.22 1
1956	0.00 4	0.00 4	0.00 4	0.00 4	0.00 4	0.00 4	0.15 5	0.43 5	0.56 5	1.29 5
1957	0.00 5	0.00 5	0.00 5	0.00 5	0.00 5	0.00 5	0.00 3	0.00 3	0.00 2	0.25 2

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

PREACHER CREEK NEAR DOVER, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1952	7.2 5	4.6 5	2.7 5	2.3 5	1.8 4	1.5 3	1.4 3	1.3 3	1.3 3	0.7 3
1953	92.0 2	35.7 2	24.2 1	11.4 1	5.7 2	2.9 2	2.1 2	1.7 2	1.4 2	0.8 2
1954	15.5 4	8.3 4	4.2 4	2.5 4	1.5 5	1.0 5	0.8 5	0.7 5	0.7 5	0.5 5
1955	124.0 1	44.0 1	20.1 2	10.5 2	8.4 1	5.0 1	3.4 1	2.6 1	1.8 1	0.9 1
1956	50.0 3	22.4 3	10.0 3	4.7 3	2.4 3	1.4 4	1.1 4	1.0 4	0.9 4	0.6 4

## ARKANSAS RIVER BASIN

71

07159000 TURKEY CREEK NEAR DRUMMOND, OKLA.

LOCATION.--Lat 36°19'05", long 98°00'03", in NE 1/4 NE 1/4 sec.12, T.21 N., R.8 W., Garfield County, near right bank on downstream side of pile bent of county road bridge, 2.2 mi (3.5 km) northeast of Drummond, 2.5 mi (4.0 km) downstream from Clear Creek, and 9.0 mi (14.5 km) southwest of Enid.

DRAINAGE AREA.--248 mi<sup>2</sup> (642 km<sup>2</sup>).

PERIOD OF RECORD.--October 1947 to September 1970.

AVERAGE DISCHARGE.--23 years (1948-70), 48.9 ft<sup>3</sup>/s (1.38 m<sup>3</sup>/s).

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

## TURKEY CREEK NEAR DRUMMOND, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	
YEAR	NUMBER OF DAYS IN CLASS																																		CFS-DAYS	
1948	71					52	51	21	25	28	13	18		9	12	7	9	13	4	12	6	1	2	4	4	2			1	1						4942.6
1949	21					8	2		10	16	33	25	14	15	8	9	29	29	30	16	19	15	5	9	12	11	9	11	8	1						47952.1
1950						1			9	21	57	69	43	24	16	18	22	20	17	7	6	3	6	3	5	1	4	3	6	2		2				37642.8
1951									2	4	9	3	10	33	121	51	40	16	23	11	7	2	4	2	2	3	5	6	11							32088.6
1952	82					10	4		4	11	10	25	21	35	93	35	15	7	8	2	2			2	2											2103.9
1953	91					45	70	45	43	16	5	8	3	3	9	4	3	3	4	1			6	1	3	1	1									2465.4
1954	167					34	29	15	40	23	5	10	4	3	4	3	9	2	7	1	2	2	2		2	1										2203.8
1955	80					86	48	9	14	12	7	16	12	12	15	6	4	7	2	5	6	6	1	5	1	1	1	2	3	2	2					22430.8
1956	111					5	5	15	73	67	20	26	18	8	3	3		1	2	2	1	2						2	2							4016.4
1957	50					32	22	13	37	23	4	11	3	21	23	12	10	10	14	7	13	9	3	9	4	5	5	4	11	7	2		1			65348.4
1958	6					21	10	4	8	5	7	14	38	45	105	48	21	10	5	5			4	4	3	2										4136.1
1959	64					21	11	7	17	19	34	51	56	33	16	9	6	3	5	3	2	1	1	2		1	1	2								5023.0
1960																49	64	76	68	23	12	12	12	6	4	3	9	2	9	12	2	3				55295.2
1961									2	3	5	8	12	12	17	21	78	81	31	25	11	10	11	8	3	12	6	6	3							20331.8
1962						9	6	8	19	12	5	9	13	14	38	62	57	39	21	14	14	4	3	8	1		3	1	3	1	1					20070.8
1963	16					19	40	20	17	28	23	24	73	48	32	4	3	4	2		1	2		1	1	1	1	1	2	1	1					11814.8
1964	34					8	17	11	21	22	41	52	74	30	9	7	9	1	6	3	3	5	3	3	2	1	3	1								6437.2
1965	43					18	13	4	3	4	7	7	13	14	43	66	50	17	13	10	11	4	3	4	5	2	3	2	5			1				21765.0
1966	54							7	7	16	10	11	24	69	44	67	26	10	3	6	4	4	1	1		1										1438.2
1967	32	2	1	3	3	2	21	31	55	91	48	9	7	9	6	5	9	8	3	4	4	1	3	3			1		2	2						6552.4
1968	31	1	2	5	7	8	10	12	15	15	28	43	82	51	8	9	10	4	5	4	2	5		4		2	1		1	1					5280.9	
1969	4			2	8	2	20	3	4	8	11	39	57	46	24	28	20	12	8	10	12	7	3	5	6	7	5	6	2	6					23904.4	
1970	3		4	1	2	3	12	7	2	13	30	43	65	76	20	25	15	8	4	11	5	3	3	3	1	1	1	1	1	2					7472.0	

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	960	8401	100.0	9	0.40	482	6292	74.9	18	15.0	298	1386	16.5	27	550	53	208	2.4
1	0.01	3	7441	88.6	10	0.60	444	5810	69.2	19	22.0	252	1088	13.0	28	830	54	155	1.8
2	0.02	7	7438	88.5	11	0.90	446	5366	63.9	20	33.0	143	836	10.0	29	1200	72	101	1.2
3	0.03	11	7431	88.5	12	1.30	660	4920	58.6	21	49.0	127	693	8.2	30	1900	16	29	.3
4	0.05	20	7420	88.3	13	1.90	642	4260	50.7	22	73.0	100	566	6.7	31	2800	10	13	.1
5	0.07	15	7400	88.1	14	2.90	492	3618	43.1	23	110.0	69	466	5.5	32	4200	2	3	.0
6	0.10	438	7385	87.9	15	4.30	705	3126	37.2	24	160.0	73	397	4.7	33	6300	1	1	.0
7	0.20	389	6947	82.7	16	6.50	552	2421	28.8	25	250.0	65	324	3.9	34				
8	0.30	266	6558	78.1	17	9.70	483	1869	22.2	26	370.0	51	259	3.1					

## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## TURKEY CREEK NEAR DRUMMOND, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1949	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.05 3	11.80 20	10.60 19	18.90 17	62.40 14
1950	0.20 17	0.40 18	0.53 18	0.64 17	0.95 16	1.22 16	1.35 11	1.75 12	1.75 7	80.70 17
1951	0.40 19	0.53 20	0.86 21	1.36 20	2.17 19	5.31 20	5.45 18	5.50 16	10.50 16	107.00 20
1952	0.50 21	0.60 21	0.77 20	0.83 19	2.07 18	4.01 18	4.84 16	5.73 17	5.84 14	85.80 18
1953	0.00 2	0.00 2	0.00 2	0.00 2	0.00 2	0.05 4	0.06 3	0.10 3	0.20 2	2.59 3
1954	0.00 3	0.00 3	0.00 3	0.00 3	0.00 3	0.36 9	0.41 6	1.41 9	2.27 9	7.96 7
1955	0.00 4	0.00 4	0.00 4	0.00 4	0.00 4	0.00 1	0.00 1	0.07 2	0.72 4	5.09 4
1956	0.00 5	0.00 5	0.00 5	0.01 10	0.08 10	0.47 11	0.54 7	0.86 6	20.10 18	70.90 16
1957	0.00 6	0.00 6	0.00 6	0.00 5	0.00 5	0.00 2	0.00 2	0.00 1	0.06 1	1.08 1
1958	0.40 20	0.47 19	0.56 19	2.96 21	3.93 21	5.18 19	5.25 17	6.45 18	8.72 15	184.00 22
1959	0.00 7	0.00 7	0.09 15	0.09 13	0.12 11	0.23 8	0.56 8	0.75 5	1.18 5	6.95 6
1960	0.00 8	0.00 8	0.00 7	0.00 6	0.05 8	0.16 7	0.22 4	1.30 8	25.70 19	65.40 15
1961	4.70 22	4.70 22	4.79 22	5.99 22	6.62 22	8.30 21	9.53 19	11.60 20	38.20 21	118.00 21
1962	0.30 18	0.33 17	0.49 17	0.76 18	2.95 20	10.10 22	15.30 22	19.70 22	68.50 22	85.80 19
1963	0.10 16	0.10 16	0.13 16	0.29 15	0.32 14	0.55 12	0.68 9	0.89 7	1.37 6	6.63 5
1964	0.00 9	0.00 9	0.01 13	0.09 14	0.20 12	0.90 13	0.85 10	2.10 13	3.98 13	33.40 11
1965	0.00 10	0.00 10	0.00 8	0.00 7	0.00 6	1.20 14	14.50 21	17.10 21	25.80 20	49.40 12
1966	0.00 11	0.00 11	0.00 9	0.05 12	0.43 15	1.70 17	2.66 15	3.05 15	3.43 11	27.40 10
1967	0.00 12	0.00 12	0.00 10	0.00 8	0.00 7	0.15 6	0.33 5	0.39 4	0.41 3	2.44 2
1968	0.00 13	0.00 13	0.00 11	0.02 11	0.28 13	0.37 10	1.50 12	1.52 10	2.49 10	18.90 8
1969	0.00 14	0.00 14	0.00 12	0.00 9	0.07 9	0.13 5	1.61 14	2.36 14	3.62 12	19.10 9
1970	0.06 15	0.06 15	0.08 14	0.35 16	1.09 17	1.20 15	1.55 13	1.66 11	1.86 8	60.60 13

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## TURKEY CREEK NEAR DRUMMOND, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1948	1090.0 18	420.0 18	185.0 18	99.3 18	51.6 19	43.2 18	31.2 18	32.5 16	24.9 17	13.5 17
1949	1950.0 8	1470.0 9	1330.0 6	1020.0 3	738.0 2	424.0 3	348.0 3	293.0 4	246.0 2	131.0 3
1950	6250.0 2	3280.0 2	2280.0 2	1200.0 2	676.0 3	354.0 5	391.0 2	305.0 2	204.0 3	103.0 4
1951	1850.0 9	1530.0 8	1310.0 8	865.0 6	572.0 4	483.0 2	328.0 4	248.0 5	170.0 5	87.9 5
1952	202.0 22	151.0 22	75.8 22	38.8 22	21.8 22	15.4 22	12.2 22	10.6 22	9.7 22	5.7 22
1953	523.0 19	264.0 20	135.0 20	88.6 19	46.2 20	29.4 19	26.0 19	19.8 19	13.2 20	6.8 20
1954	476.0 20	326.0 19	158.0 19	78.6 20	54.1 18	28.4 20	19.8 20	15.0 21	11.5 21	6.0 21
1955	4140.0 3	3110.0 3	2040.0 3	1000.0 4	510.0 5	362.0 4	246.0 6	184.0 7	122.0 7	61.5 7
1956	1110.0 16	907.0 15	501.0 13	235.0 15	118.0 15	59.4 15	39.8 17	30.0 18	20.1 18	11.0 19
1957	10400.0 1	5610.0 1	3290.0 1	1900.0 1	1190.0 1	947.0 1	696.0 1	531.0 1	357.0 1	179.0 1
1958	304.0 21	258.0 21	132.0 21	69.5 21	35.9 21	25.2 21	19.7 21	17.8 20	15.6 19	11.3 18
1959	1110.0 17	932.0 14	528.0 12	252.0 14	126.0 14	63.3 14	42.2 16	32.5 17	25.7 16	13.8 16
1960	3690.0 5	2780.0 4	1920.0 4	962.0 5	497.0 6	352.0 6	300.0 5	293.0 3	197.0 4	151.0 2
1961	1160.0 14	820.0 16	447.0 16	291.0 13	174.0 13	139.0 11	113.0 11	88.2 11	72.6 10	55.7 9
1962	3990.0 4	2450.0 5	1390.0 5	678.0 7	477.0 7	260.0 8	185.0 8	144.0 8	98.6 8	55.0 10
1963	2800.0 7	2120.0 7	1120.0 9	528.0 10	373.0 9	188.0 10	125.0 10	94.9 10	63.3 11	32.4 11
1964	1150.0 15	613.0 17	280.0 17	139.0 17	90.3 17	55.7 16	50.0 14	44.3 14	31.0 14	17.6 14
1965	3430.0 6	2260.0 6	1320.0 7	632.0 8	329.0 10	192.0 9	131.0 9	100.0 9	77.3 9	59.6 8
1966	163.0 23	86.3 23	40.8 23	21.2 23	11.9 23	7.1 23	5.4 23	5.3 23	5.0 23	3.9 23
1967	1490.0 12	1270.0 11	767.0 10	371.0 11	188.0 12	95.3 13	68.0 13	53.8 13	35.4 13	18.0 13
1968	1500.0 11	951.0 13	466.0 14	219.0 16	110.0 16	55.0 17	47.2 15	39.5 15	26.6 15	14.4 15
1969	1700.0 10	1410.0 10	743.0 11	533.0 9	412.0 8	273.0 7	240.0 7	185.0 6	126.0 6	65.5 6
1970	1410.0 13	958.0 12	455.0 15	362.0 12	206.0 11	109.0 12	74.1 12	56.1 12	39.0 12	20.5 12

## STATISTICS OF ANNUAL DISCHARGE FOR WATER YEARS, 1948-70

Units of annual Discharge	Mean	Standard Deviation	Coefficient of Variation	Skew Coefficient	First Order Serial Correlation Coefficient
CFS	48.9	50.5	1.03	1.31	-0.10
LOGS of CFS	1.442	0.499		0.022	-0.027

ARKANSAS RIVER BASIN

73

07159500 BLUFF CREEK ABOVE LAKE HEFNER, NEAR OKLAHOMA CITY, OKLA.

LOCATION.--Lat 35°32'33", long 97°35'46", in SW 1/4 sec.2, T.12 N., R.4 W., on left bank at upstream side of bridge in Lake Hefner recreational area, just upstream from Lake Hefner, 6.25 mi. (10.1 km) northwest of the State Capitol in Oklahoma City.

DRAINAGE AREA.--1.62 mi<sup>2</sup> (4.20 km<sup>2</sup>).

PERIOD OF RECORD.--March 1950 to September 1958.

AVERAGE DISCHARGE.--8 years (1951-8), 0.391 ft<sup>3</sup>/s (0.011 m<sup>3</sup>/s).

REMARKS.--Occasional regulation at low flow by gravel plant above station.

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

BLUFF CREEK ABOVE LAKE HEFNER NEAR OKLA. CITY, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS
1951	28	11	6	5	5	25	10	3	60	88	31	18	17	7	9	14	6	3	3	3	4	2	3	1			2		1						246.6
1952	130	1	2	2	2	6	1		61	71	36	18	11	5	9	2	2	3	2				1	1											96.1
1953	206	3	1		3	4	5	5	69	30	10	4	7	3	3	4	1	1	2		2				1		1								75.7
1954	125	3	1	2	3	9	18	61	25	35	10	3	5	4	4	2	4	1	3		1				1										74.3
1955	236	19	12	9	10	21	9	1	10	11	3	4	3	2	2	2	1	2	3				2			1				2					145.4
1956	145	1	4	2	6	15	12	7	82	53	12	1	8	1	4	2	3	1	1	2			1	1					1	1					125.2
1957	232	5	5	3	4	11	7	3	14	7	12	6	13	4	5	2	6	5	3	4	6	1	3	2		1	1								166.0
1958	68	9	5	6	6	10	6		81	46	22	13	26	7	24	8	6	8	5	1	3	1				1	1	1	1						213.0

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	1170	2922	100.0	9	0.20	341	900	30.8	18	2.3	22	84	2.9	27	21	2	6	.2					
1	0.01	52	1752	60.0	10	0.30	136	559	19.1	19	2.9	11	62	2.1	28	27	2	4	.1					
2	0.02	36	1700	58.2	11	0.40	67	423	14.5	20	3.7	15	51	1.7	29	34	2	2	.0					
3	0.03	29	1664	56.9	12	0.50	90	356	12.2	21	4.7	4	36	1.2	30									
4	0.04	39	1635	56.0	13	0.70	33	266	9.1	22	6.1	10	32	1.1	31									
5	0.05	101	1596	54.6	14	0.80	60	233	8.0	23	7.8	6	22	0.8	32									
6	0.07	68	1495	51.2	15	1.10	36	173	5.9	24	9.9	2	16	0.5	33									
7	0.09	25	1427	48.8	16	1.40	29	137	4.7	25	13.0	4	14	0.5	34									
8	0.10	502	1402	48.0	17	1.80	24	108	3.7	26	16.0	4	10	0.3										

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

BLUFF CREEK ABOVE LAKE HEFNER NEAR OKLA. CITY, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1951	0.01 8	0.02 8	0.04 8	0.05 8	0.08 8	0.11 8	0.13 7	0.15 7	0.18 5	0.56 5
1952	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.05 7	0.06 6	0.10 5	0.19 6	0.70 7
1953	0.00 2	0.00 2	0.00 2	0.00 2	0.00 2	0.00 1	0.00 1	0.00 1	0.01 3	0.19 3
1954	0.00 3	0.00 3	0.00 3	0.00 3	0.00 3	0.00 2	0.02 4	0.09 4	0.12 4	0.23 4
1955	0.00 4	0.00 4	0.00 4	0.00 4	0.00 4	0.00 3	0.00 2	0.00 2	0.00 1	0.11 2
1956	0.00 5	0.00 5	0.00 5	0.00 5	0.00 5	0.01 6	0.03 5	0.27 8	0.54 8	0.70 8
1957	0.00 6	0.00 6	0.00 6	0.00 6	0.00 6	0.00 4	0.00 3	0.00 3	0.00 2	0.03 1
1958	0.00 7	0.00 7	0.00 7	0.00 7	0.00 7	0.01 5	0.15 8	0.13 6	0.22 7	0.64 6

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

BLUFF CREEK ABOVE LAKE HEFNER NEAR OKLA. CITY, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1951	28.0 3	12.8 3	6.9 5	6.2 1	4.0 1	2.7 1	2.0 1	1.6 1	1.2 1	0.7 1
1952	8.6 8	3.2 8	2.6 6	1.4 7	0.8 8	0.6 8	0.6 6	0.5 6	0.5 6	0.3 6
1953	13.0 6	5.0 6	2.4 7	1.3 8	1.0 6	0.7 6	0.6 7	0.5 7	0.4 7	0.2 7
1954	9.9 7	4.1 7	2.0 8	1.5 6	1.0 7	0.6 7	0.4 8	0.4 8	0.3 8	0.2 8
1955	54.0 1	24.9 1	12.2 1	6.0 2	3.7 2	2.3 2	1.6 3	1.2 4	0.8 4	0.4 4
1956	28.0 2	18.9 2	10.3 2	5.1 3	2.6 4	1.4 5	1.1 5	0.9 5	0.6 5	0.3 5
1957	16.0 5	11.8 4	7.3 3	4.1 4	2.8 3	2.0 3	1.7 2	1.3 2	0.9 3	0.5 3
1958	25.0 4	10.6 5	6.9 4	3.7 5	2.0 5	1.5 4	1.4 4	1.3 3	1.0 2	0.6 2

## ARKANSAS RIVER BASIN

07160000 CIMARRON RIVER NEAR GUTHRIE, OKLA.

LOCATION.--Lat 35°55'10", long 97°25'35", in NE 1/4 SE 1/4 sec.29, T.17 N., R.2 W., Logan County, on left bank 125 ft (38.1 m) upstream from the Atchison, Topeka and Santa Fe Railway Co. bridge, 1.2 mi (1.9 km) downstream from Cottonwood Creek, 2.5 mi (4.0 km) north of Guthrie, 6.5 mi (10.5 km) upstream from Skeleton Creek, and at mile 121.8 (196.0 km).

DRAINAGE AREA.--16,892 mi<sup>2</sup> (43,750 km<sup>2</sup>), of which 4,926 mi<sup>2</sup> (12,758 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD.--October 1937 to September 1974.

AVERAGE DISCHARGE.--37 years (1938-74), 869 ft<sup>3</sup>/s (24.6 m<sup>3</sup>/s).

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

CIMARRON RIVER NEAR GUTHRIE, OKLAHOMA

CLASS 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34

YEAR	NUMBER OF DAYS IN CLASS																																CFS_DAYS								
1938														1	59	9	39	14	15	37	18	47	18	19	24	11	14	13	10	5	4	4	1	2	1	402058.0					
1939														2	11	7	2	3	5	9	29	71	56	43	33	26	18	16	11	12	2	5	2	1	1	120814.4					
1940	4	8	9	8	16	19	11	20	20	8	12	18	20	22	22	28	29	27	18	10	8	6	8	5	8	1										89326.2					
1941															5	8	8	12	5	6	4	37	66	59	25	25	22	15	21	9	14	10	4	5	2	3	342976.3				
1942																			7	10	21	46	87	50	43	31	15	19	10	7	5	5	2	5	2	672703.0					
1943															8	25	11	6	8	7	19	52	60	52	39	33	13	11	6	3	6	1	2	1	1	1	238021.0				
1944															3	11	10	7	18	21	15	38	45	44	26	21	20	23	16	19	9	10	2	4	1	2	1	319473.6			
1945																			6	8	5	19	30	28	66	58	34	33	16	18	6	14	10	7	2	1	3	1	354532.0		
1946															3	4	10	6	8	16	17	70	68	67	40	18	15	10	7	1	1		2		2		121072.5				
1947															1	10	6	7	7	18	7	13	41	23	66	32	29	20	12	18	15	17	6	7	3	2	2	2	1	407670.3	
1948															5	10	22	6	2	17	9	15	28	48	42	29	26	25	19	14	13	9	10	6	4	4	3		265138.7		
1949																			2	27	6	4	31	37	28	38	34	37	29	17	24	19	9	7	10	3	3		708539.0		
1950																																									428715.0
1951																																									591466.0
1952																																									134194.7
1953																																									70135.4
1954																																									93755.2
1955																																									368916.6
1956																																									140773.8
1957																																									1042321.4
1958																																									311160.0
1959																																									205523.0
1960																																									681496.0
1961																																									418030.0
1962																																									381344.0
1963																																									273894.0
1964																																									119387.0
1965																																									277603.0
1966																																									120441.5
1967																																									126678.0
1968																																									140268.0
1969																																									297956.0
1970																																									125295.0
1971																																									84861.8
1972																																									124699.0
1973																																									

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	13514	100.0	9	5.90	127	13082	96.8	18	170.0	1685	8290	61.3	27	4900	141	423	3.1
1	0.30	4	13514	100.0	10	8.50	130	12955	95.9	19	250.0	1646	6605	48.9	28	7100	82	282	2.0
2	0.40	46	13510	100.0	11	12.00	179	12825	94.9	20	360.0	1377	4959	36.7	29	10000	89	200	1.4
3	0.60	67	13464	99.6	12	18.00	273	12646	93.6	21	520.0	1013	3582	26.5	30	15000	51	111	.8
4	0.90	96	13397	99.1	13	26.00	320	12373	91.6	22	750.0	747	2569	19.0	31	22000	33	60	.4
5	1.30	44	13301	98.4	14	38.00	460	12053	89.2	23	1100.0	531	1822	13.5	32	32000	23	27	.1
6	1.90	34	13257	98.1	15	55.00	690	11593	85.8	24	1600.0	351	1291	9.6	33	46000	3	4	.0
7	2.80	40	13223	97.8	16	80.00	1291	10903	80.7	25	2300.0	303	940	7.0	34	67000	1	1	
8	4.00	101	13183	97.6	17	120.00	1322	9612	71.1	26	3400.0	214	637	4.7					



## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## CIMARRON RIVER NEAR GUTHRIE, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1939	34.00 21	37.30 21	45.40 21	56.50 20	58.80 17	76.00 11	119.00 14	115.00 9	138.00 8	1100.00 25
1940	0.30 1	0.30 1	0.39 1	0.53 2	1.11 3	1.66 3	2.64 2	3.60 2	17.00 2	271.00 6
1941	7.60 11	7.93 9	8.29 7	10.00 9	13.40 8	42.30 8	114.00 13	160.00 14	173.00 10	323.00 7
1942	82.00 30	84.30 29	102.00 28	141.00 30	354.00 35	399.00 34	432.00 34	472.00 34	1500.00 36	1600.00 32
1943	80.00 29	103.00 31	115.00 31	143.00 31	166.00 28	215.00 27	274.00 27	303.00 27	404.00 27	1290.00 29
1944	7.10 9	7.93 10	8.30 8	9.26 7	11.10 6	17.40 6	27.20 6	97.60 8	115.00 7	600.00 14
1945	16.00 15	16.00 15	17.60 14	23.50 14	72.70 18	124.00 18	270.00 26	303.00 28	342.00 25	953.00 22
1946	19.00 18	19.70 17	22.30 17	27.60 17	51.30 16	114.00 17	157.00 17	163.00 15	400.00 26	910.00 21
1947	6.90 8	7.23 8	8.60 10	16.60 13	19.80 9	133.00 20	148.00 15	189.00 18	321.00 20	394.00 11
1948	3.80 6	3.87 6	3.89 6	4.13 6	5.49 5	6.98 4	11.20 5	17.60 5	57.00 5	1030.00 23
1949	28.00 19	32.70 19	40.10 20	42.50 19	44.90 15	110.00 16	282.00 28	300.00 25	601.00 30	1050.00 24
1950	112.00 32	118.00 32	123.00 32	134.00 29	158.00 27	212.00 26	235.00 24	237.00 22	325.00 21	1630.00 33
1951	73.00 28	77.70 28	83.40 27	87.90 26	90.70 22	236.00 28	248.00 25	247.00 24	330.00 23	1180.00 26
1952	130.00 33	150.00 34	176.00 35	186.00 34	225.00 31	277.00 29	283.00 29	301.00 26	334.00 24	1630.00 34
1953	0.50 3	0.50 3	0.50 3	0.54 3	0.69 2	0.83 2	5.61 3	16.80 4	25.20 4	238.00 4
1954	0.50 4	0.57 4	0.76 4	1.86 5	13.20 7	89.70 13	96.70 10	150.00 13	196.00 13	249.00 5
1955	0.40 2	0.43 2	0.47 2	0.49 1	0.50 1	0.65 1	1.94 1	2.58 1	9.64 1	161.00 2
1956	9.80 13	9.87 13	10.10 13	11.00 10	91.40 23	97.80 15	101.00 11	121.00 11	658.00 31	1330.00 30
1957	1.10 5	1.10 5	1.11 5	1.14 4	1.67 4	9.41 5	10.20 4	14.60 3	19.60 3	75.50 1
1958	143.00 34	149.00 33	158.00 33	181.00 33	236.00 32	302.00 31	295.00 31	334.00 31	413.00 28	3040.00 36
1959	45.00 22	65.00 27	113.00 30	116.00 28	120.00 24	141.00 21	165.00 18	178.00 17	211.00 14	752.00 19
1960	18.00 17	21.70 18	27.00 18	71.20 22	131.00 26	156.00 22	172.00 20	307.00 29	907.00 33	1450.00 31
1961	156.00 35	160.00 35	176.00 34	221.00 35	305.00 34	421.00 35	434.00 35	445.00 33	673.00 32	1240.00 27
1962	188.00 36	201.00 36	218.00 36	233.00 36	359.00 36	503.00 36	522.00 36	550.00 35	950.00 34	1250.00 28
1963	54.00 26	56.30 24	62.90 24	74.20 23	182.00 29	277.00 29	283.00 30	323.00 30	328.00 22	733.00 18
1964	58.00 27	61.70 25	82.40 26	107.00 27	128.00 25	172.00 24	188.00 22	226.00 20	246.00 15	709.00 15
1965	17.00 16	17.30 16	20.90 15	24.60 15	37.60 13	83.00 12	148.00 16	125.00 12	260.00 17	468.00 12
1966	90.00 31	92.00 30	112.00 29	177.00 32	239.00 33	315.00 32	302.00 32	339.00 32	430.00 29	710.00 16
1967	8.00 12	9.00 12	9.50 12	14.40 11	35.10 12	59.30 10	67.00 7	86.40 6	92.10 6	163.00 3
1968	52.00 24	56.00 23	61.40 23	77.10 24	89.70 21	96.30 14	101.00 12	119.00 10	143.00 9	372.00 10
1969	32.00 20	33.00 20	37.60 19	39.90 18	84.00 19	129.00 19	177.00 21	242.00 23	271.00 18	501.00 13
1970	54.00 25	61.70 26	64.70 25	68.30 21	89.10 20	157.00 23	170.00 19	177.00 16	185.00 12	720.00 17
1971	6.00 7	6.50 7	8.93 11	16.30 12	26.10 10	36.50 7	68.90 8	96.70 7	184.00 11	343.00 9
1972	7.40 10	8.40 11	8.51 9	9.77 8	26.40 11	52.80 9	94.00 9	193.00 19	279.00 19	340.00 8
1973	14.00 14	15.30 14	20.90 16	25.30 16	41.60 14	182.00 25	199.00 23	230.00 21	255.00 16	872.00 20
1974	49.00 23	55.00 22	59.00 22	77.90 25	214.00 30	350.00 33	394.00 33	650.00 36	1350.00 35	1760.00 35

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## CIMARRON RIVER NEAR GUTHRIE, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1938	37200.0 9	24100.0 12	18000.0 8	10900.0 9	6610.0 9	4680.0 9	3400.0 9	2840.0 7	2100.0 6	1100.0 11
1939	12700.0 25	6500.0 30	3300.0 30	1850.0 31	1110.0 31	872.0 31	868.0 28	745.0 27	539.0 28	331.0 31
1940	7870.0 31	4750.0 31	2520.0 32	1280.0 36	1030.0 35	784.0 33	648.0 32	617.0 30	461.0 30	244.0 35
1941	18800.0 23	14000.0 23	8440.0 24	4740.0 24	4280.0 13	3910.0 10	2910.0 10	2290.0 11	1690.0 12	940.0 15
1942	33600.0 12	30500.0 5	19100.0 6	13400.0 5	8660.0 5	4780.0 7	3730.0 6	2920.0 6	2180.0 5	1840.0 4
1943	32200.0 16	22100.0 16	12700.0 13	7490.0 11	4470.0 12	2450.0 18	1740.0 21	1360.0 21	992.0 21	652.0 22
1944	27600.0 19	20000.0 18	9320.0 21	6790.0 13	4930.0 11	3000.0 12	2520.0 12	2080.0 13	1560.0 14	873.0 16
1945	30400.0 17	18400.0 20	12100.0 15	6620.0 14	3930.0 16	2550.0 15	2250.0 13	2050.0 14	1480.0 15	971.0 14
1946	12400.0 26	7510.0 27	3860.0 28	1970.0 30	1050.0 32	662.0 35	507.0 35	448.0 35	400.0 33	332.0 30
1947	36600.0 11	25100.0 10	14800.0 10	8250.0 10	4990.0 10	4790.0 6	3510.0 7	2810.0 8	1900.0 10	1120.0 10
1948	21200.0 22	15800.0 21	11500.0 19	6820.0 12	3970.0 15	2970.0 13	2100.0 16	1630.0 19	1340.0 16	724.0 21
1949	42400.0 3	33500.0 4	26200.0 3	16100.0 2	11800.0 2	7180.0 3	5170.0 3	4170.0 3	3390.0 2	1940.0 2
1950	40400.0 4	25300.0 9	21400.0 5	12800.0 6	7800.0 6	4740.0 8	3400.0 8	2750.0 9	2020.0 7	1170.0 8
1951	38600.0 5	34700.0 3	23900.0 4	15100.0 3	8740.0 4	7650.0 2	5440.0 2	4200.0 2	2910.0 3	1620.0 6
1952	3750.0 36	3320.0 35	2410.0 34	2150.0 28	1340.0 29	1040.0 28	884.0 27	744.0 28	584.0 27	367.0 26
1953	3620.0 37	3280.0 36	2560.0 31	1830.0 32	1050.0 33	683.0 34	464.0 36	396.0 36	312.0 36	192.0 37
1954	10000.0 30	7160.0 28	4090.0 27	2140.0 29	1430.0 28	869.0 32	617.0 33	486.0 33	368.0 35	257.0 34
1955	37300.0 8	27300.0 6	18100.0 7	11500.0 7	7110.0 8	5710.0 5	3900.0 5	2970.0 5	2000.0 8	1010.0 13
1956	32700.0 15	26500.0 7	13400.0 11	6610.0 15	3410.0 21	1760.0 23	1200.0 23	929.0 24	658.0 24	385.0 24
1957	112000.0 1	67900.0 1	39400.0 1	23200.0 1	17000.0 1	13600.0 1	10600.0 1	8150.0 1	5660.0 1	2860.0 1
1958	27600.0 20	18600.0 19	11600.0 17	5550.0 16	4170.0 14	2530.0 16	2070.0 17	1670.0 18	1300.0 17	852.0 17
1959	36700.0 10	24000.0 13	13100.0 12	6110.0 19	3140.0 23	1650.0 24	1160.0 24	934.0 23	907.0 23	563.0 23
1960	58400.0 2	45700.0 2	27400.0 2	13700.0 4	7250.0 7	3870.0 11	2830.0 11	2330.0 10	1990.0 9	1860.0 3
1961	28400.0 18	20200.0 17	9380.0 20	5010.0 23	3060.0 24	2070.0 21	1770.0 19	1680.0 16	1570.0 13	1150.0 9
1962	22100.0 21	15800.0 22	8850.0 23	5400.0 22	3530.0 20	2270.0 20	1770.0 20	1530.0 20	1140.0 20	1040.0 12
1963	33000.0 14	22400.0 15	11900.0 16	6170.0 18	3830.0 18	2410.0 19	2040.0 18	1680.0 17	1170.0 19	750.0 20
1964	12100.0 27	8550.0 25	4110.0 26	2180.0 27	1300.0 30	867.0 29	660.0 31	550.0 31	456.0 31	326.0 33
1965	38100.0 6	24100.0 11	11500.0 18	5760.0 20	3190.0 22	1870.0 22	1400.0 22	1330.0 22	991.0 22	761.0 19
1966	4230.0 35	3120.0 37	2180.0 35	1360.0 35	874.0 37	610.0 36	517.0 34	464.0 34	426.0 32	330.0 32
1967	11100.0 29	6960.0 29	3640.0 29	2440.0 26	1900.0 25	1160.0 25	946.0 25	784.0 25	601.0 26	347.0 27
1968	5940.0 32	3980.0 32	2460.0 33	1670.0 33	1500.0 27	1130.0 26	913.0 26	766.0 26	632.0 25	383.0 25
1969	16600.0 24	13200.0 24	9100.0 22	5700.0 21	3750.0 19	2690.0 14	2160.0 14	1790.0 15	1300.0 18	816.0 18
1970	11200.0 28	6150.0 26	4410.0 25	2780.0 25	1780.0 26	1060.0 27	778.0 29	623.0 29	503.0 29	343.0 28
1971	5170.0 33	3330.0 34	1960.0 37	1540.0 34	884.0 36	499.0 37	361.0 37	386.0 37	302.0 37	232.0 36
1972	4800.0 34	3690.0 33	2150.0 36	1210.0 37	1030.0 34	872.0 30	667.0 30	547.0 32	398.0 34	341.0 29
1973	33400.0 13	26500.0 8	16400.0 9	11500.0 8	9170.0 3	6400.0 4	4740.0 4	3710.0 4	2720.0 4	1650.0 5
1974	37800.0 7	22800.0 14	12500.0 14	6550.0 17	3870.0 17	2530.0 17	2150.0 15	2120.0 12	1690.0 11	1470.0 7



## MONTHLY DURATION TABLE

CIMARRON RIVER NEAR GUTHRIE, OKLAHOMA

PERIOD 1937-1974

CLASS LIMIT	TOTAL PERCENT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
0.00	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0.30	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0.43	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.6	99.8	99.7
0.62	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.7	100.0	98.5	97.5	97.7
0.90	99.1	100.0	100.0	100.0	100.0	100.0	100.0	99.5	99.9	99.7	97.2	95.7	97.6
1.30	98.4	100.0	100.0	100.0	100.0	100.0	100.0	98.8	98.9	97.9	93.5	94.7	97.4
1.90	98.1	100.0	100.0	100.0	100.0	100.0	100.0	98.3	98.7	96.6	92.9	93.9	96.9
2.80	97.8	99.9	100.0	100.0	100.0	100.0	100.0	98.1	98.5	95.9	92.6	93.2	96.0
4.00	97.6	99.2	100.0	100.0	100.0	100.0	99.8	98.0	98.3	95.0	92.0	92.9	95.6
5.90	96.8	97.7	99.9	100.0	100.0	100.0	99.6	97.5	97.6	93.2	90.3	91.1	94.8
8.50	95.9	95.7	99.5	100.0	100.0	100.0	99.5	96.9	96.9	90.9	87.7	89.9	93.6
12.00	94.9	93.9	99.5	99.9	99.1	100.0	99.1	96.0	95.7	88.1	86.5	88.6	92.7
18.00	93.6	92.4	98.7	99.1	98.3	99.7	98.8	95.0	92.3	84.0	84.8	87.8	92.2
26.00	91.6	89.7	97.1	97.6	98.3	99.2	98.6	92.4	88.1	80.3	83.3	85.9	88.4
38.00	89.2	89.3	94.4	95.7	97.7	97.3	97.3	88.1	83.2	75.9	79.9	84.0	87.9
55.00	85.8	88.2	92.7	94.7	95.0	94.7	94.1	85.4	77.1	73.2	73.1	76.9	84.9
80.00	80.7	84.7	90.5	88.9	88.6	91.1	90.8	80.9	69.0	68.4	67.2	70.9	77.9
120.00	71.1	71.6	79.8	79.4	77.8	82.1	84.1	72.9	57.5	62.8	60.3	62.2	63.9
170.00	61.3	57.6	63.3	65.6	68.0	74.9	78.2	65.1	49.3	56.4	52.1	51.0	54.9
250.00	48.9	38.4	46.6	50.2	57.2	65.6	70.6	54.7	38.7	47.0	40.4	37.6	39.8
360.00	36.7	20.6	27.8	35.5	45.9	58.8	61.3	44.3	29.9	38.2	28.2	28.0	22.0
520.00	26.5	9.2	14.3	22.1	34.1	49.3	50.4	34.3	21.2	31.3	21.8	17.1	13.0
750.00	19.0	3.9	7.9	15.4	25.5	39.3	40.9	24.5	14.7	23.8	15.8	10.7	5.4
1100.00	13.5	1.8	4.7	9.9	18.7	30.3	32.3	16.6	10.3	15.8	11.7	7.0	2.5
1600.00	9.6	0.9	2.7	6.1	14.6	23.5	24.9	11.0	7.1	10.3	8.1	4.4	1.1
2300.00	7.0	0.3	2.2	3.7	11.0	19.1	19.6	7.8	4.2	6.8	5.8	2.4	0.5
3400.00	4.7	0.2	1.4	2.6	7.4	14.2	13.7	4.8	2.5	4.0	4.0	1.4	0.3
4900.00	3.1	0.0	0.9	2.0	4.8	9.9	9.6	2.7	1.7	2.3	2.9	0.8	0.0
7100.00	2.1	0.0	0.5	1.0	3.6	7.1	6.6	1.4	1.0	1.4	1.9	0.5	0.0
10000.00	1.5	0.0	0.1	0.8	2.6	5.4	4.1	1.0	0.5	1.3	1.6	0.4	0.0
15000.00	0.8	0.0	0.0	0.4	1.5	3.1	2.1	0.6	0.3	0.6	1.0	0.1	0.0
22000.00	0.4	0.0	0.0	0.3	0.7	1.9	0.7	0.2	0.1	0.5	0.9	0.0	0.0
32000.00	0.2	0.0	0.0	0.1	0.2	0.9	0.3	0.1	0.0	0.2	0.7	0.0	0.0
46000.00	0.0	0.0	0.0	0.0	0.0	0.2	0.1	0.0	0.0	0.0	0.1	0.0	0.0
67000.00	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0

## STATISTICS OF ANNUAL DISCHARGE FOR WATER YEARS, 1938-74

Units of annual Discharge	Mean	Standard Deviation	Coefficient of Variation	Skew Coefficient	First Order Serial Correlation Coefficient
CFS	869	611	0.70	1.249	0.069
LOGS of CFS	2.835	0.311		0.004	0.213

## 07160500 SKELETON CREEK NEAR LOVELL, OKLA.

LOCATION.--Lat 36°03'36", long 97°35'05", in NW 1/4 SW 1/4 sec.1, T.18 N., R.4 W., Logan County, near right bank on downstream side of pier of bridge on State Highway 74, 2 mi (3.2 km) upstream from Otter Creek, 2.8 mi (4.5 km) east of Lovell, and at mile 14.6 (23.5 km).

DRAINAGE AREA.--410 mi<sup>2</sup> (1,062 km<sup>2</sup>).

PERIOD OF RECORD.--October 1949 to September 1974.

AVERAGE DISCHARGE.--25 years (1950-74), 110 ft<sup>3</sup>/s (3.11 m<sup>3</sup>/s).

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

SKELETON CREEK NEAR LOVELL, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS
1950	1 7 31119 54 29 19 21 19 9 13 6 6 6 2 5 8 2 1 3 2 1 1																																		49085.3
1951	1 5 17 29 77120 25 18 17 12 11 4 4 2 3 4 4 5 5 2																																		32447.5
1952	2 3 6 3 17 17 19 11 21 15 32 91 57 25 20 9 3 4 2 4 3 1 1																																		6662.9
1953	8 6 13 4 8 12 8 33 34 79 70 30 12 9 7 7 6 7 3 3 1 2 2 1																																		6167.2
1954	20 5 4 3 8 21 11 19 25 44 99 35 9 9 7 14 4 4 7 4 2 1 5 1 1																																		9376.0
1955	3 24 34 87 79 29 18 7 9 13 11 12 5 5 4 2 5 1 1 2 4 4 2 4																																		66566.9
1956	13 6 9 6 16 9 9 14 6 7 42 38119 30 12 8 7 3 2 3 10 9 3 7 5 8 3 3 13 7 1 2 1																																		23752.4
1957	14 5 4 5 7 23 56 35 19 30 16 19 20 17 11 11 10 9 3 1 4 1 3 2 3 1 1 2 2																																		158233.8
1958	8 16 24 52119 53 31 21 11 12 3 1 4 1 3 2 3 1 1																																		25191.9
1959	15 19 62 76 98 42 13 10 9 2 5 8 1 1 1 2 2 1 1 1																																		17670.8
1960	1 22 53 86 62 36 30 11 11 10 9 8 3 7 3 3 4 2 2 3																																		116039.0
1961	4 22 36 57102 46 24 10 17 9 10 6 2 8 4 3 1 1 1 1																																		57770.3
1962	8 26 22 22 24 47 49 73 32 24 9 8 4 6 3 4 1 1 1 1																																		35526.6
1963	17 29 54 71 60 36 25 19 12 11 7 6 3 1 1 4 1 2 3 2 1																																		33085.5
1964	4 10 20 27 29109 69 22 29 7 13 3 5 4 3 1 4 2 1 1 1																																		21202.5
1965	11 33 33 59 57 73 37 19 11 3 3 1 4 3 2 5 4 4 2 1																																		28777.1
1966	1 13 48118102 33 13 4 5 3 3 6 4 2 4 1 1 3 1																																		9270.5
1967	2 93103 33 22 39 23 9 6 2 8 2 7 3 7 1 3 1 1																																		15183.1
1968	6 17 41 98 81 42 19 11 10 6 7 6 3 5 3 4 2 2 1 1 1																																		20158.5
1969	2 8 3 25 74 61 35 29 29 13 18 18 9 6 10 1 3 4 3 6 4 4																																		52165.3
1970	1 1 14 15 28 66104 66 31 11 8 7 4 3 2 1 2																																		7472.4
1971	1 1 2 10 7 3 17 37 72 98 44 18 13 11 8 6 5 2 5 1 2 2																																		7310.0
1972	1 2 1 12 29100 77 62 28 16 7 7 6 1 5 1 4 2 2																																		12205.1
1973	1 8 20 30 25 28 44 38 37 29 18 14 21 10 12 5 7 5 8 3 1 1																																		65376.8
1974	5 10 8 21 41 33 58 42 40 22 13 15 9 8 6 6 9 5 3 3 5 2 1																																		124903.8
CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	
0	0.00	55	9131	100.0	9	2.70	669	8343	91.4	18	74.0	249	1073	11.8	27	2000	43	113	1.2	27	2000	43	113	1.2	27	2000	43	113	1.2	27	2000	43	113	1.2	
1	0.10	20	9076	99.4	10	3.90	1055	7674	84.0	19	110.0	143	824	9.0	28	2900	32	70	.7	28	2900	32	70	.7	28	2900	32	70	.7	28	2900	32	70	.7	
2	0.20	30	9056	99.2	11	5.60	1207	6619	72.5	20	150.0	141	681	7.5	29	4200	15	38	.4	29	4200	15	38	.4	29	4200	15	38	.4	29	4200	15	38	.4	
3	0.30	21	9026	98.9	12	8.10	1235	5412	59.3	21	220.0	97	540	5.9	30	6000	13	23	.2	30	6000	13	23	.2	30	6000	13	23	.2	30	6000	13	23	.2	
4	0.40	44	9005	98.6	13	12.00	975	4177	45.7	22	320.0	83	443	4.9	31	8700	6	10	.1	31	8700	6	10	.1	31	8700	6	10	.1	31	8700	6	10	.1	

## STATION NUMBER 07160500

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## SKELETON CREEK NEAR LOVELL, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1951	3.20 19	3.80 18	5.04 19	5.12 19	5.66 17	10.80 17	11.40 17	11.70 13	14.80 11	131.00 17
1952	0.20 6	3.47 17	4.11 16	4.44 16	6.19 18	10.90 19	10.80 15	13.90 17	17.50 13	90.40 14
1953	0.10 4	0.13 4	0.17 4	0.17 4	0.35 4	0.80 1	1.43 1	2.68 2	2.99 2	11.50 2
1954	0.00 1	0.00 1	0.00 1	0.00 1	0.33 3	1.91 4	9.01 10	15.30 18	23.90 18	28.30 6
1955	0.00 2	0.00 2	0.00 2	0.00 2	0.26 2	1.59 2	1.85 2	1.97 1	2.94 1	13.40 3
1956	1.30 9	1.40 8	1.51 8	1.86 6	2.24 6	4.78 7	9.43 12	10.80 10	120.00 22	241.00 22
1957	0.00 3	0.00 3	0.00 3	0.00 3	0.02 1	1.82 3	2.72 3	3.01 3	3.50 3	7.26 1
1958	4.70 22	5.03 22	5.59 21	8.61 23	11.20 21	18.20 22	18.10 22	20.30 20	23.80 16	445.00 24
1959	4.40 20	4.43 20	4.66 18	5.03 17	5.48 16	7.49 13	9.38 11	9.50 6	9.95 6	60.10 11
1960	1.90 14	1.90 13	1.91 9	2.66 13	4.06 11	8.52 15	9.79 13	10.80 11	86.30 21	204.00 20
1961	8.00 24	8.33 24	10.00 24	11.40 24	14.80 23	17.10 21	17.80 21	21.10 22	50.80 20	182.00 19
1962	4.80 23	5.00 21	5.73 22	5.91 21	11.90 22	39.00 24	40.30 23	50.50 23	148.00 24	206.00 21
1963	2.30 17	2.47 15	2.51 15	2.61 11	4.06 12	6.28 11	7.37 8	10.20 7	10.20 7	29.60 7
1964	2.00 15	2.53 16	4.19 17	5.07 18	6.75 19	10.80 18	11.40 16	11.60 12	20.50 15	95.00 15
1965	1.40 11	1.73 10	2.14 12	2.63 12	3.17 7	8.29 14	12.40 19	17.40 19	47.30 19	86.50 13
1966	2.20 16	2.33 14	2.37 13	2.55 10	4.23 13	5.20 8	6.59 7	12.00 14	10.40 8	45.20 10
1967	1.80 13	1.87 12	1.91 10	2.06 7	3.35 9	3.73 5	3.85 4	3.97 4	5.01 4	22.70 4
1968	1.30 10	1.37 7	1.50 7	2.18 8	3.17 8	3.91 6	4.32 5	4.40 5	6.88 5	42.40 9
1969	1.60 12	1.83 11	1.91 11	2.49 9	5.27 15	6.16 10	12.00 18	13.20 15	13.70 10	65.20 12
1970	4.70 21	5.10 23	5.26 20	5.76 20	7.30 20	10.00 16	9.99 14	10.60 9	10.90 9	135.00 18
1971	0.69 8	1.48 9	2.44 14	3.11 15	3.47 10	6.58 12	8.28 9	10.20 8	15.50 12	22.90 5
1972	0.12 5	0.33 5	0.54 5	0.71 5	1.93 5	5.24 9	5.56 6	13.40 16	23.90 17	35.10 8
1973	0.34 7	0.41 6	1.15 6	3.02 14	4.31 14	11.70 20	14.90 20	20.50 21	19.80 14	110.00 16
1974	2.90 18	4.10 19	6.81 23	7.53 22	18.50 24	29.90 23	53.70 24	57.20 24	134.00 23	297.00 23

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## SKELETON CREEK NEAR LOVELL, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1950	6820.0 7	5080.0 7	3350.0 5	2110.0 4	1120.0 5	606.0 6	454.0 6	367.0 7	247.0 8	134.0 8
1951	2160.0 18	1490.0 17	1220.0 14	778.0 12	467.0 12	427.0 10	309.0 10	235.0 10	163.0 10	88.9 11
1952	511.0 25	272.0 25	144.0 25	69.0 25	43.0 25	33.7 25	33.2 24	28.3 25	24.8 24	18.2 24
1953	1230.0 20	668.0 20	305.0 20	144.0 22	100.0 21	53.3 23	46.9 21	41.2 21	30.6 21	16.9 25
1954	1070.0 22	581.0 23	259.0 23	136.0 23	93.3 22	65.5 21	45.2 22	35.1 22	27.9 23	25.7 20
1955	7240.0 6	5100.0 6	2840.0 7	2160.0 3	1610.0 2	1080.0 2	724.0 2	544.0 2	361.0 3	182.0 4
1956	6740.0 8	5610.0 5	2850.0 6	1340.0 7	679.0 10	344.0 11	233.0 12	177.0 12	120.0 12	64.9 14
1957	39200.0 1	21100.0 1	9630.0 1	5210.0 1	3120.0 1	2180.0 1	1630.0 1	1240.0 1	860.0 1	434.0 1
1958	2520.0 16	1810.0 16	1110.0 17	604.0 16	344.0 16	188.0 17	181.0 13	149.0 13	116.0 13	69.0 13
1959	4570.0 11	3380.0 10	1740.0 11	811.0 11	408.0 13	207.0 15	144.0 15	110.0 17	86.3 16	48.4 17
1960	12200.0 4	10500.0 2	6180.0 2	2990.0 2	1520.0 3	776.0 3	546.0 4	434.0 4	323.0 4	317.0 3
1961	17200.0 2	9570.0 3	4160.0 3	2040.0 5	1050.0 6	531.0 8	382.0 8	355.0 8	265.0 7	158.0 6
1962	4440.0 12	2510.0 13	1140.0 16	613.0 15	554.0 11	342.0 12	254.0 11	203.0 11	147.0 11	97.3 9
1963	6060.0 10	4510.0 8	2400.0 8	1140.0 10	745.0 9	447.0 9	321.0 9	250.0 9	171.0 9	90.6 10
1964	4180.0 13	2440.0 15	1260.0 13	680.0 14	351.0 15	205.0 16	144.0 16	131.0 15	95.2 15	57.9 15
1965	4070.0 14	2900.0 11	1400.0 12	692.0 13	395.0 14	209.0 14	144.0 17	111.0 16	80.0 17	78.8 12
1966	1120.0 21	639.0 21	278.0 21	193.0 20	112.0 20	88.6 20	61.6 20	57.4 20	40.4 20	25.4 21
1967	2280.0 17	1200.0 19	536.0 19	343.0 18	234.0 18	153.0 18	113.0 18	90.7 18	77.9 18	41.6 18
1968	7550.0 5	2710.0 12	1170.0 15	551.0 17	291.0 17	226.0 13	175.0 14	138.0 14	103.0 14	55.1 16
1969	3440.0 15	2490.0 14	1810.0 10	1320.0 8	920.0 7	596.0 7	485.0 5	373.0 5	266.0 6	143.0 7
1970	752.0 24	381.0 24	187.0 24	98.7 24	86.3 23	53.9 22	41.2 23	33.1 23	30.2 22	20.5 22
1971	808.0 23	583.0 22	266.0 22	144.0 21	75.9 24	39.6 24	28.9 25	31.2 24	24.3 25	20.0 23
1972	2000.0 19	1300.0 18	583.0 18	282.0 19	150.0 19	115.0 19	82.0 19	65.0 19	45.9 19	33.3 19
1973	6450.0 9	4360.0 9	2280.0 9	1140.0 9	837.0 8	613.0 5	425.0 7	369.0 6	271.0 5	179.0 5
1974	15700.0 3	9390.0 4	4150.0 4	1960.0 6	1240.0 4	688.0 4	587.0 3	521.0 3	437.0 2	342.0 2

## STATISTICS OF ANNUAL DISCHARGE FOR WATER YEARS, 1950-74

Units of annual Discharge	Mean	Standard Deviation	Coefficient of Variation	Skew Coefficient	First Order Serial Correlation Coefficient
CFS	110	110	1.00	1.74	0.06
LOGS of CFS	1.854	0.413		0.173	0.280

## 07161000 CIMARRON RIVER AT PERKINS, OKLA.

LOCATION.--Lat 35°57'32", long 97°01'49", in SW 1/4 SW 1/4 sec.7, T.17 N., R.3 E., Payne County, near right bank at downstream side of bridge on U.S. Highway 177, 1.0 mi (1.6 km) south of Perkins, 1.5 mi (2.4 km) upstream from Dugout Creek, 4.0 mi (6.4 km) downstream from Wildhorse Creek, and at mile 87.3 (140.5 km).

DRAINAGE AREA.--17,852 mi<sup>2</sup> (46,237 km<sup>2</sup>) of which 4,926 mi<sup>2</sup> (12,758 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD.--June 1939 to September 1974.

AVERAGE DISCHARGE.--35 years (1940-74), 1,143 ft<sup>3</sup>/s (32.4 m<sup>3</sup>/s).

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

CIMARRON RIVER AT PERKINS, OKLAHOMA

CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	12784	100.0
1	0.90	18	12784	100.0
2	1.30	18	12766	99.9
3	1.80	55	12748	99.7
4	2.60	79	12693	99.3
5	3.70	74	12614	98.7
6	5.20	43	12540	98.1
7	7.40	80	12497	97.8
8	11.00	127	12417	97.1

CLASS	CFS	TOTAL	ACCUM	PERCT
9	15.00	174	12290	96.1
10	21.00	194	12116	94.8
11	30.00	241	11922	93.3
12	43.00	391	11681	91.4
13	61.00	524	11290	88.3
14	87.00	658	10766	84.2
15	120.00	1361	10108	79.1
16	180.00	1381	8747	68.4
17	250.00	1707	7366	57.6

CLASS	CFS	TOTAL	ACCUM	PERCT
18	360.00	1359	5659	44.3
19	510.00	1061	4300	33.6
20	720.00	820	3239	25.3
21	1000.00	738	2419	18.9
22	1500.00	439	1681	13.1
23	2100.00	342	1242	9.7
24	3000.00	254	900	7.0
25	4200.00	183	646	5.1
26	6000.00	147	463	3.6

CLASS	CFS	TOTAL	ACCUM	PERCT
27	8500	120	316	2.4
28	12000	69	196	1.5
29	17000	51	127	.9
30	24000	40	76	.5
31	35000	26	36	.2
32	49000	7	10	.0
33	70000	2	3	.0
34	100000	1	1	.

## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## CIMARRON RIVER AT PERKINS, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1941	12.00 9	13.00 9	14.40 7	17.10 6	22.80 5	50.20 6	178.00 13	206.00 13	230.00 11	413.00 7
1942	99.00 24	108.00 24	126.00 26	163.00 27	372.00 32	476.00 32	595.00 32	660.00 32	2070.00 34	2180.00 32
1943	126.00 29	136.00 30	157.00 30	199.00 30	213.00 27	273.00 25	338.00 29	380.00 27	499.00 25	1810.00 27
1944	16.00 12	17.30 12	18.70 11	25.20 11	31.90 7	38.80 5	61.10 6	162.00 9	189.00 7	837.00 15
1945	27.00 13	29.00 14	32.70 14	40.40 13	129.00 22	191.00 20	325.00 28	510.00 31	591.00 26	1280.00 21
1946	46.00 18	47.30 18	65.00 19	66.30 18	103.00 18	174.00 16	236.00 18	242.00 16	678.00 28	1400.00 23
1947	10.00 6	11.70 7	14.70 8	18.60 7	27.80 6	177.00 17	192.00 14	225.00 15	413.00 21	509.00 9
1948	10.00 7	10.00 6	11.40 6	13.30 5	13.40 4	17.10 4	22.30 4	31.20 4	74.80 4	1390.00 22
1949	41.00 17	42.30 17	45.90 17	48.80 15	55.10 12	133.00 13	305.00 25	331.00 22	674.00 27	1210.00 20
1950	131.00 30	133.00 29	145.00 28	155.00 24	187.00 23	239.00 22	258.00 20	259.00 17	366.00 17	1950.00 29
1951	84.00 23	90.00 22	95.00 22	107.00 21	109.00 20	266.00 24	273.00 21	274.00 19	372.00 20	1450.00 24
1952	170.00 31	178.00 31	187.00 31	240.00 32	280.00 29	346.00 30	359.00 30	392.00 29	448.00 23	2020.00 30
1953	2.70 3	2.80 3	3.09 3	3.17 3	3.50 2	4.37 2	11.10 2	24.20 3	40.30 3	283.00 4
1954	8.40 4	8.97 4	9.84 4	13.00 4	43.60 9	123.00 12	126.00 9	192.00 11	252.00 12	314.00 5
1955	0.90 1	1.07 1	1.21 1	1.29 1	1.68 1	2.36 1	4.70 1	9.74 1	19.50 1	184.00 2
1956	15.00 11	16.30 11	18.10 9	19.10 8	97.60 16	136.00 14	140.00 11	149.00 8	951.00 30	1810.00 28
1957	2.50 2	2.53 2	2.69 2	2.96 2	4.85 3	16.00 3	17.00 3	21.90 2	28.50 2	90.30 1
1958	200.00 32	202.00 32	206.00 32	217.00 31	281.00 30	319.00 28	319.00 27	355.00 26	446.00 22	3660.00 34
1959	112.00 26	113.00 26	117.00 25	120.00 22	127.00 21	163.00 15	176.00 12	187.00 10	217.00 8	834.00 14
1960	60.00 20	65.00 20	72.00 20	156.00 25	188.00 24	277.00 26	285.00 23	386.00 28	1160.00 31	2130.00 31
1961	200.00 33	207.00 33	219.00 33	264.00 34	359.00 31	442.00 31	455.00 31	466.00 30	781.00 29	1580.00 25
1962	200.00 34	208.00 34	219.00 34	255.00 33	479.00 34	660.00 34	725.00 34	784.00 33	1450.00 32	1750.00 26
1963	125.00 28	131.00 28	140.00 27	163.00 28	230.00 28	291.00 27	300.00 24	347.00 25	366.00 18	804.00 13
1964	119.00 27	126.00 27	147.00 29	166.00 29	196.00 25	208.00 21	226.00 17	261.00 18	298.00 13	894.00 17
1965	27.00 14	27.70 13	30.90 13	34.80 12	46.50 11	115.00 11	246.00 19	201.00 12	341.00 15	621.00 11
1966	81.00 22	90.00 23	103.00 23	157.00 26	213.00 26	321.00 29	311.00 26	333.00 23	459.00 24	864.00 16
1967	12.00 8	12.70 8	18.40 10	22.70 10	46.00 10	51.50 7	59.30 5	81.60 5	105.00 5	196.00 3
1968	50.00 19	51.30 19	56.90 18	69.90 19	76.10 14	79.30 9	90.70 8	113.00 6	144.00 6	534.00 10
1969	39.00 16	42.00 16	44.90 16	49.60 16	98.30 17	179.00 18	222.00 16	289.00 21	310.00 14	702.00 12
1970	76.00 21	80.30 21	87.00 21	102.00 20	108.00 19	185.00 19	197.00 15	207.00 14	217.00 9	939.00 18
1971	8.40 5	8.97 5	11.10 5	19.50 9	35.80 8	56.90 8	74.40 7	115.00 7	229.00 10	402.00 6
1972	13.00 10	16.00 10	21.90 12	46.40 14	57.90 13	88.70 10	128.00 10	286.00 20	350.00 16	429.00 8
1973	28.00 15	30.70 15	41.70 15	53.90 17	91.60 15	263.00 23	274.00 22	345.00 24	372.00 19	1070.00 19
1974	110.00 25	111.00 25	116.00 24	132.00 23	461.00 33	579.00 33	634.00 33	981.00 34	1890.00 33	2460.00 33

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## CIMARRON RIVER AT PERKINS, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1940	7270.0 30	5370.0 30	2950.0 30	1570.0 33	1170.0 33	856.0 32	790.0 30	722.0 28	583.0 28	307.0 32
1941	23100.0 24	19000.0 21	12200.0 22	6660.0 22	6190.0 13	5450.0 10	3960.0 10	3100.0 11	2260.0 11	1250.0 14
1942	44400.0 10	38100.0 6	23900.0 6	18100.0 4	11900.0 3	6530.0 6	5290.0 5	4130.0 5	3110.0 5	2600.0 3
1943	43000.0 13	31300.0 14	19200.0 9	10800.0 10	6440.0 10	3490.0 14	2450.0 16	1910.0 17	1390.0 20	882.0 20
1944	44400.0 11	27000.0 15	13300.0 18	8680.0 14	6240.0 12	3780.0 12	3170.0 13	2620.0 13	1920.0 14	1110.0 15
1945	31800.0 18	23900.0 18	16800.0 13	9050.0 13	5420.0 14	3470.0 15	3280.0 12	2990.0 12	2260.0 12	1510.0 8
1946	15300.0 26	9320.0 26	4920.0 26	2630.0 27	1480.0 29	887.0 31	730.0 31	667.0 31	596.0 27	521.0 25
1947	35000.0 16	31900.0 13	18800.0 10	11200.0 9	6540.0 9	6450.0 7	4710.0 7	3790.0 7	2580.0 9	1480.0 9
1948	24900.0 22	16000.0 23	12600.0 21	7670.0 19	4430.0 19	3280.0 16	2320.0 17	1860.0 19	1510.0 16	822.0 21
1949	50400.0 4	42800.0 3	34400.0 3	20700.0 3	14500.0 2	8650.0 3	6230.0 3	4960.0 3	4060.0 2	2320.0 4
1950	42200.0 14	33200.0 10	26700.0 5	16500.0 6	9960.0 6	5910.0 9	4220.0 9	3510.0 9	2530.0 10	1450.0 10
1951	45600.0 6	42000.0 4	29000.0 4	17400.0 5	10600.0 5	9360.0 2	6670.0 2	5140.0 2	3590.0 3	1990.0 7
1952	3760.0 35	3430.0 35	2500.0 34	2200.0 30	1480.0 30	1210.0 26	1030.0 26	887.0 26	701.0 26	454.0 27
1953	4540.0 34	3710.0 34	2730.0 32	1980.0 31	1190.0 32	781.0 33	551.0 34	490.0 34	385.0 34	235.0 35
1954	9250.0 28	7460.0 27	4330.0 27	2290.0 29	1510.0 28	950.0 30	680.0 32	537.0 32	411.0 33	305.0 33
1955	45400.0 7	34300.0 7	23600.0 7	15800.0 7	9500.0 8	7650.0 4	5260.0 6	3990.0 6	2670.0 7	1350.0 12
1956	48600.0 5	38500.0 5	19800.0 8	9700.0 11	5020.0 17	2600.0 21	1780.0 21	1370.0 22	951.0 24	543.0 24
1957	108000.0 1	79900.0 1	49900.0 1	29500.0 1	21000.0 1	16300.0 1	12800.0 1	9790.0 1	6840.0 1	3450.0 1
1958	27700.0 19	18300.0 22	12900.0 20	7260.0 20	4580.0 18	2760.0 19	2270.0 18	1840.0 20	1460.0 18	950.0 18
1959	43500.0 12	33400.0 8	18000.0 11	8440.0 15	4370.0 20	2280.0 23	1660.0 23	1310.0 23	1160.0 22	695.0 22
1960	84300.0 2	72800.0 2	45000.0 2	22400.0 2	11800.0 4	6240.0 8	4540.0 8	3630.0 8	3100.0 6	2700.0 2
1961	55600.0 3	32000.0 12	15000.0 16	7920.0 17	4330.0 21	2670.0 20	2180.0 20	2340.0 15	2050.0 13	1450.0 11
1962	27400.0 20	20300.0 20	10900.0 23	6380.0 23	4010.0 23	2800.0 18	2190.0 19	1880.0 18	1440.0 19	1340.0 13
1963	38100.0 15	25500.0 17	14000.0 17	7250.0 21	5180.0 16	3230.0 17	2620.0 15	2130.0 16	1490.0 17	929.0 19
1964	20100.0 25	12100.0 25	5890.0 25	3080.0 25	1760.0 27	1170.0 27	859.0 27	727.0 27	570.0 30	426.0 29
1965	45400.0 8	33400.0 9	16000.0 14	7790.0 18	4280.0 22	2370.0 22	1750.0 22	1660.0 21	1270.0 21	981.0 17
1966	5660.0 33	3980.0 33	2760.0 31	1680.0 32	1030.0 34	710.0 34	582.0 33	518.0 33	454.0 32	371.0 31
1967	27000.0 21	13600.0 24	6690.0 24	4830.0 24	3350.0 24	1920.0 24	1460.0 24	1200.0 25	921.0 25	514.0 26
1968	8030.0 29	6480.0 29	3820.0 29	2630.0 28	2000.0 25	1780.0 25	1430.0 25	1210.0 24	973.0 23	550.0 23
1969	23500.0 23	20600.0 19	13100.0 19	7970.0 16	5260.0 15	3610.0 13	2960.0 14	2410.0 14	1720.0 15	1060.0 16
1970	9650.0 27	6670.0 28	3920.0 28	3000.0 26	1910.0 26	1160.0 28	858.0 28	688.0 29	575.0 29	395.0 30
1971	5450.0 32	4640.0 32	2480.0 35	1560.0 34	908.0 35	534.0 35	412.0 35	472.0 35	358.0 35	294.0 34
1972	5980.0 31	4490.0 31	2700.0 33	1540.0 35	1230.0 31	1020.0 29	808.0 29	674.0 30	499.0 31	438.0 28
1973	34800.0 17	26200.0 16	15700.0 15	11200.0 8	9940.0 7	7330.0 5	5550.0 4	4400.0 4	3280.0 4	2040.0 6
1974	45400.0 9	32100.0 11	18000.0 12	9200.0 12	6350.0 11	3880.0 11	3360.0 11	3410.0 10	2590.0 8	2310.0 5

## MONTHLY DURATION TABLE

CIMARRON RIVER AT PERKINS, OKLAHOMA

PERIOD 1939-1974

CLASS LIMIT	TOTAL PERCENT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
0.00	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0.90	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1.30	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.4	99.4	99.5
1.80	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	99.8	99.1	98.6	99.3
2.60	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.7	99.0	97.9	97.0	97.9
3.70	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.4	98.6	95.1	94.1	96.9
5.20	98.1	99.4	100.0	100.0	100.0	100.0	100.0	100.0	98.4	97.7	92.8	93.4	95.5
7.40	97.8	98.6	100.0	100.0	100.0	100.0	100.0	100.0	98.1	97.1	91.7	92.5	95.2
11.00	97.1	97.0	99.8	100.0	100.0	100.0	100.0	99.4	97.6	95.7	91.2	91.3	93.8
15.00	96.1	94.5	99.7	99.9	99.8	100.0	99.5	98.2	96.8	94.3	88.5	89.8	92.9
21.00	94.8	92.0	98.6	99.3	98.5	99.6	99.3	96.1	94.5	92.1	87.1	88.4	92.4
30.00	93.3	91.4	97.1	98.0	97.8	99.4	99.0	94.7	91.5	88.6	84.8	86.3	90.7
43.00	91.4	90.9	94.3	96.1	97.7	99.3	98.7	91.4	88.1	83.9	82.0	84.5	89.8
61.00	88.3	90.0	93.8	94.6	97.4	96.8	97.0	87.9	82.4	80.4	76.0	78.0	86.0
87.00	84.2	87.0	92.4	90.5	92.3	93.5	93.9	85.3	75.1	76.4	69.8	73.2	81.8
120.00	79.1	81.5	85.9	84.9	83.4	90.5	89.5	80.7	67.2	70.7	65.8	71.0	78.2
180.00	68.4	64.1	71.7	72.6	73.0	81.8	83.7	73.5	55.0	64.0	58.2	60.0	64.0
250.00	57.6	50.0	56.4	59.6	64.5	74.1	77.8	66.1	44.9	55.0	48.2	47.7	47.5
360.00	44.3	27.1	33.4	44.1	53.7	65.5	69.1	55.8	35.6	46.3	36.4	34.8	29.3
510.00	33.6	14.4	20.8	30.0	41.5	57.1	59.3	45.1	26.1	37.4	28.5	24.5	18.6
720.00	25.3	8.9	11.4	21.0	30.9	47.3	49.9	33.6	19.5	30.5	21.8	16.4	12.4
1000.00	18.9	3.8	8.2	14.9	23.8	38.7	40.6	24.3	14.0	24.1	17.0	11.8	5.7
1500.00	13.1	2.1	5.2	9.2	18.5	29.1	30.7	15.4	9.3	15.8	12.2	7.6	2.7
2100.00	9.7	1.0	3.1	6.3	15.2	22.7	23.9	11.9	5.8	10.9	9.0	4.8	1.9
3000.00	7.0	0.6	2.1	4.0	12.1	18.4	19.1	7.8	3.1	7.4	5.8	2.7	1.3
4200.00	5.1	0.2	1.6	2.8	7.6	14.2	15.1	5.3	2.3	4.6	4.3	1.7	0.8
6000.00	3.6	0.1	1.0	2.0	5.7	11.2	11.0	3.7	1.5	2.8	3.2	0.8	0.4
8500.00	2.5	0.0	0.6	1.3	4.3	7.3	7.3	2.4	0.8	2.5	2.5	0.6	0.1
12000.00	1.5	0.0	0.3	0.9	2.8	5.2	4.2	0.6	0.4	1.6	2.0	0.4	0.0
17000.00	1.0	0.0	0.0	0.5	1.9	3.9	2.2	0.6	0.3	1.0	1.5	0.2	0.0
24000.00	0.6	0.0	0.0	0.3	1.2	2.0	1.0	0.4	0.3	0.6	1.2	0.1	0.0
35000.00	0.3	0.0	0.0	0.2	0.3	1.0	0.4	0.1	0.1	0.5	0.8	0.0	0.0
49000.00	0.1	0.0	0.0	0.0	0.0	0.4	0.1	0.0	0.0	0.1	0.4	0.0	0.0
70000.00	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.1	0.0	0.0
100000.00	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0

## STATISTICS OF ANNUAL DISCHARGE FOR WATER YEARS, 1940-74

Units of annual Discharge	Mean	Standard Deviation	Coefficient of Variation	Skew Coefficient	First Order Serial Correlation Coefficient
CFS	1,143	809	0.71	1.08	0.05
LOGS of CFS	2.950	0.318		-0.039	0.207



## ARKANSAS RIVER BASIN

## 07163000 COUNCIL CREEK NEAR STILLWATER, OKLA.

LOCATION.--Lat 36°07'07", long 96°52'00", in SW 1/4 SW 1/4 sec.15, T.19 N., R.4 E., Payne County, on right bank 200 ft (61.8 m) upstream from bridge on State Highway 51, 10.0 mi (16.1 km) east of Stillwater, and at mile 10.0 (16.1 km).

DRAINAGE AREA.--31 mi<sup>2</sup> (80.3 km<sup>2</sup>).

PERIOD OF RECORD.--April 1934 to September 1974.

AVERAGE DISCHARGE.--40 years (1935-74), 10.6 ft<sup>3</sup>/s (0.300 m<sup>3</sup>/s).

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

## COUNCIL CREEK NEAR STILLWATER, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	
YEAR	NUMBER OF DAYS IN CLASS																																			CFS_DAYS
1935	115	1			2	2	25	43	38	50	24	7	12	12	9	3	1		2	3	2	7	3	2		1		1							2311.5	
1936	142	3	5		11	43	41	39	22	17	15	3	4	3	1	2	4	3	2	2	2	1	1													507.0
1937	204	5	7		21	33	31	15	14	8	5	4		3	3		2	3	1		1	2		1		2									1041.8	
1938	135	11	18		29	24	9	10	3	8	29	17	18	13	8	4	7	3	2	4	2	2	4		1	1	2				1				3628.8	
1939	186	7	8		24	16	40	25	12	8	17	4	4	2	1	1	1	2			1	2	3	1											546.5	
1940	321	4	2	1	2	3	3	2	2	2	2	3	5	1	2		2	1	1	2		3	1		1										592.1	
1941	121	9	4		4	14	37	50	8	8	9	23	21	12	6	4	5	5	5	2	4	4	3		2	3	1	1							3488.2	
1942	4				2	5	3	3	15	18	62	49	56	49	22	17	9	11	11	4	2	5	4	2	3	4	1	3			1				16902.5	
1943	90					13	3	1	22	23	115	34	22	10	9	3	5	2	2	3	3		2	3		1	1	1	1	1					7633.7	
1944	80				7	30	14	51	37	30	12	23	21	17	4	3	5	4	5	5	4	5		1	2	1									4069.8	
1945	89				5	26	43	52	14	10	10	35	23	14	9	4	5	2	4	7	2	3		2	3	1	1	1							5475.2	
1946	67				1	6	4	49	17	40	12	46	49	27	12	7	7	4	2	4	1	6	2	2											3235.2	
1947	127				38	51	44	26	7	10	9	11	6	4	3	7	3	2	3	5	2		3	1	2			1							3626.1	
1948	180				51	40	16	18	10	5	5	5	3	8	3	4	2	1		2	3	4	2	2	1					1					4236.9	
1949	107				21	29	32	22	13	35	17	41	11	6	4	7	3	3	4	1	3	1							1						3401.3	
1950	32				7	52	42	42	59	30	13	6	5	8	3	4	5	1	6	1		4	1				2	2							3825.6	
1951	53				6	17	43	31	45	42	45	29	13	8	7	4	8	3	3	2		2	2	1	1										2430.1	
1952	105				7	5	7	5	8	66	44	25	36	20	7	8	1	4	7	3	1	4	1	1	1										2739.5	
1953	203				39	20	30	15	10	11	4	4	2	2	4	2	5	2	2		2	1		2											1287.3	
1954	258				68	9	10	4	3		3		1		2	1	1			1	2	1	1												710.5	
1955	346				2	2	1	1	2	1	1	1	1	1	1	2				1							1	1							1199.5	
1956	354				1				1	1	1	1	2	2	1							1	1												248.5	
1957	229				2	5	18	13	14	6	4	4	9	10	6	10	9	3	3	3	2	2	4	1	4	3	1								7164.9	
1958	52				14	13	53	61	38	25	25	28	14	7	7	3	8	4	1	6		1	2	2	1										2769.2	
1959	47				22	29	39	34	41	35	19	17	19	11	10	9	4	5	3	1	2	4	3	2	4	1	2	2							10013.4	
1960	41				8	4	2	5	14	10	14	27	53	99	36	16	7	7	3	3	2	7	2	1	2					1	1				17884.0	
1961	24				7	4	12	7	24	105	53	39	22	17	8	8	5	6	5	4	5	4	1	2			1	2							5926.4	
1962	7				5	8	10	8	29	23	27	65	57	61	23	6	8	6	2	3	4	5	3	2	1	2									5773.1	
1963	28				14	13	17	17	13	44	81	76	21	11	4	7	6	1	1	2	2		4	2	1										3014.5	
1964	101				33	15	29	18	60	63	15	10	3	4	1	4	1	2	1	3	2		1												1041.1	
1965	93				13	4	13	9	30	54	44	52	12	7	6	4	5	4	3	3	2	2	1		3					1					4532.6	
1966	88				70	44	53	28	24	20	4	10	3	8	1		5	1	1	1	2	1		1											1020.0	
1967	167	2	3	2	5	8	56	46	24	6	10	1	3	4	7	2	2		1	3		2	1	2											1038.8	
1968	80		1	1	4	9	43	30	15	38	30	18	6	11	24	16	9	7	6	3	1	4	1	1	6				1						3905.5	
1969	107	4	4	5	2	4	19	23	22	35	35	24	28	18	4	5	9	4	3	2	1	1	2	1	1	1	1								1818.3	
1970	107		1	1	3	8	34	24	43	41	28	22	16	4	8	4	3	3	4	5	1	1	1	2					1						1604.4	
1971	95	9	10	15	24	15	32	54	29	29	17	5	4	1	3	6	2	2	3	1	1	2	3	1	1	1	1								1377.7	
1972	107	6	6	1	7	20	55	43	44	28	13	7	4	7	3	5	2	1	1	1	1	2	1												640.2	
1973	51	4	1	3	4	5	15	13	22	12	19	18	26	32	34	27	17	13	9	8	6	4	6	6	3	4	2	1							6634.8	
1974	16	2	2	1	3	4	8	9	11	8	14	41	59	57	38	32	15	6	6	5	2	6	5	4	5	5			1						5817.2	

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	4764	14610	100.0	9	0.50	821	6675	45.7	18	16.0	157	857	5.9					
1	0.01	67	9846	67.4	10	0.70	793	5854	40.1	19	24.0	122	700	4.8					
2	0.02	72	9779	66.9	11	1.10	913	5061	34.6	20	35.0	100	578	4.0					
3	0.03	30	9707	66.4	12	1.60	755	4148	28.4	21	52.0	111	478	3.3					
4	0.04	145	9677	66.2	13	2.30	897	3393	23.2	22	76.0	85	367	2.5					
5	0.06	208	9532	65.2	14	3.40	624	2496	17.1	23	110.0	86	282	1.9					
6	0.10	888	9324	63.4	15	5.00	539	1872	12.8	24	170.0	64	196	1.3					
7	0.20	858	8436	57.7	16	7.40	275	1333	9.1	25	250.0	47	132	0.9					
8	0.30	903	7578	51.9	17	11.00	201	1058	7.2	26	360.0	38	85	0.6					

## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## COUNCIL CREEK NEAR STILLWATER, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1935	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.47 26	1.06 26	3.76 29	5.83 17
1936	0.00 2	0.00 2	0.00 2	0.00 2	0.00 2	0.21 28	0.30 19	1.06 27	1.33 19	4.84 12
1937	0.00 3	0.00 3	0.00 3	0.00 3	0.00 3	0.00 2	0.00 1	0.07 11	0.20 9	0.81 2
1938	0.00 4	0.00 4	0.00 4	0.00 4	0.00 4	0.00 3	0.05 13	0.05 9	0.21 10	6.93 21
1939	0.00 5	0.00 5	0.00 5	0.00 5	0.00 5	0.00 4	0.00 2	0.02 8	0.17 8	5.95 18
1940	0.00 6	0.00 6	0.00 6	0.00 6	0.00 6	0.00 5	0.00 3	0.00 1	0.00 1	1.37 3
1941	0.00 7	0.00 7	0.00 7	0.00 7	0.00 7	0.11 24	0.89 30	0.86 24	1.76 24	3.12 8
1942	0.00 8	0.00 8	0.00 8	0.00 8	0.00 8	0.04 19	1.29 33	2.08 30	16.00 39	22.70 38
1943	0.10 39	0.17 39	0.31 39	0.66 40	1.43 39	3.00 38	4.21 38	4.30 38	5.22 34	34.30 39
1944	0.00 9	0.00 9	0.00 9	0.00 9	0.00 9	0.00 6	0.00 4	0.44 18	4.87 33	21.50 36
1945	0.00 10	0.00 10	0.00 10	0.00 10	0.00 10	0.04 20	1.61 34	2.41 32	4.71 31	12.10 30
1946	0.00 11	0.00 11	0.00 11	0.00 11	0.00 11	0.23 29	1.08 31	4.22 36	13.10 37	14.50 34
1947	0.00 12	0.00 12	0.00 12	0.00 12	0.00 12	0.06 21	0.19 17	0.18 15	0.34 12	5.15 15
1948	0.00 13	0.00 13	0.00 13	0.00 13	0.00 13	0.00 7	0.07 14	0.06 10	0.14 6	10.60 26
1949	0.00 14	0.00 14	0.00 14	0.00 14	0.00 14	0.02 18	0.08 15	0.15 13	1.02 17	13.10 32
1950	0.00 15	0.00 15	0.00 15	0.00 15	0.02 30	0.29 30	0.32 20	0.36 17	0.64 14	7.38 22
1951	0.00 16	0.00 16	0.00 16	0.00 16	0.11 34	0.42 33	0.46 25	0.58 20	0.89 16	11.30 28
1952	0.00 17	0.00 17	0.00 17	0.00 17	0.94 38	1.03 35	1.66 36	4.27 37	6.37 35	10.50 25
1953	0.00 18	0.00 18	0.00 18	0.00 18	0.00 15	0.00 8	0.00 5	0.00 2	0.01 4	3.04 7
1954	0.00 19	0.00 19	0.00 19	0.00 19	0.00 16	0.00 9	0.00 6	0.18 14	0.14 7	3.02 6
1955	0.00 20	0.00 20	0.00 20	0.00 20	0.00 17	0.00 10	0.00 7	0.00 3	0.00 2	1.87 4
1956	0.00 21	0.00 21	0.00 21	0.00 21	0.00 18	0.00 11	0.00 8	0.00 4	0.74 15	3.65 10
1957	0.00 22	0.00 22	0.00 22	0.00 22	0.00 19	0.00 12	0.00 9	0.00 5	0.10 5	0.36 1
1958	0.00 23	0.00 23	0.00 23	0.00 23	0.01 29	0.29 31	1.13 32	1.06 25	2.56 27	22.40 37
1959	0.00 24	0.00 24	0.00 24	0.00 24	0.00 20	0.06 22	0.09 16	0.14 12	0.27 11	5.02 14
1960	0.20 40	0.23 40	0.34 40	0.60 39	1.57 40	4.70 40	6.67 40	8.72 40	54.10 40	67.60 40
1961	0.00 25	0.00 25	0.00 25	0.00 25	0.27 35	1.11 36	1.62 35	3.09 34	4.11 30	10.90 27
1962	0.00 26	0.00 26	0.00 26	0.12 38	0.46 37	3.93 39	4.26 39	7.13 39	13.30 38	20.60 35
1963	0.00 27	0.00 27	0.00 27	0.06 37	0.41 36	2.22 37	2.40 37	3.19 35	4.78 32	12.30 31
1964	0.00 28	0.00 28	0.00 28	0.00 26	0.06 32	0.49 34	0.64 29	0.67 23	1.09 18	5.50 16
1965	0.00 29	0.00 29	0.00 29	0.00 27	0.00 21	0.00 13	0.55 28	1.14 29	3.61 28	6.25 19
1966	0.00 30	0.00 30	0.00 30	0.00 28	0.10 33	0.14 26	0.35 21	0.62 22	1.68 21	9.26 24
1967	0.00 31	0.00 31	0.00 31	0.00 29	0.00 22	0.00 14	0.00 10	0.00 6	0.01 3	2.31 5
1968	0.00 32	0.00 32	0.00 32	0.00 30	0.00 23	0.13 25	0.23 18	0.58 21	1.83 25	6.92 20
1969	0.00 33	0.00 33	0.00 33	0.00 31	0.00 24	0.00 15	0.00 11	0.01 7	0.50 13	7.92 23
1970	0.00 34	0.00 34	0.00 34	0.00 32	0.00 25	0.40 32	0.42 24	0.47 19	1.34 20	4.22 11
1971	0.00 35	0.00 35	0.00 35	0.00 33	0.00 26	0.00 16	0.00 12	0.25 16	2.03 26	5.00 13
1972	0.00 36	0.00 36	0.00 36	0.00 34	0.00 27	0.00 17	0.36 22	2.42 33	1.75 23	3.13 9
1973	0.00 37	0.00 37	0.00 37	0.00 35	0.00 28	0.07 23	0.36 23	1.13 28	1.70 22	13.80 33
1974	0.00 38	0.00 38	0.00 38	0.00 36	0.05 31	0.15 27	0.53 27	2.29 31	6.57 36	11.60 29

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## COUNCIL CREEK NEAR STILLWATER, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1935	604.0 19	229.0 22	121.0 21	70.2 20	40.5 20	22.3 21	15.6 24	13.5 25	9.5 25	6.3 25
1936	90.0 40	31.3 40	21.9 39	13.4 37	6.7 38	3.7 39	2.5 39	1.9 39	1.4 39	1.4 39
1937	338.0 28	145.0 30	69.3 28	34.2 29	17.2 33	8.7 34	7.1 33	8.4 29	5.6 30	2.9 31
1938	1200.0 7	479.0 9	209.0 10	102.0 13	52.5 17	30.5 17	31.9 12	24.1 16	19.7 13	9.9 16
1939	106.0 39	61.2 37	27.0 37	13.3 38	6.7 39	4.5 38	4.8 36	3.7 36	2.8 37	1.5 38
1940	173.0 36	58.7 38	25.4 38	11.9 39	9.1 37	4.6 37	4.1 37	3.1 37	3.2 36	1.6 37
1941	648.0 18	263.0 19	126.0 20	65.1 22	60.6 15	45.6 13	31.0 14	23.4 18	16.0 20	9.6 18
1942	3760.0 2	1300.0 3	561.0 3	266.0 3	160.0 3	102.0 3	79.5 3	85.8 2	63.1 2	46.3 2
1943	2260.0 3	1450.0 2	648.0 2	405.0 2	209.0 2	106.0 2	72.9 5	55.5 5	38.3 5	20.9 4
1944	562.0 21	281.0 18	158.0 18	85.7 17	46.4 19	29.8 18	28.7 17	25.1 15	17.2 17	11.1 13
1945	964.0 12	683.0 5	390.0 5	182.0 5	91.0 8	45.7 12	31.4 13	26.9 12	21.1 10	14.9 10
1946	329.0 30	215.0 23	153.0 19	72.6 19	37.0 23	24.6 20	18.9 20	18.4 20	16.4 19	8.9 20
1947	858.0 13	440.0 11	201.0 11	98.3 14	61.3 14	53.2 9	39.1 10	29.5 11	19.5 14	9.9 17
1948	1570.0 4	546.0 7	272.0 7	157.0 6	118.0 5	61.3 6	42.1 7	32.7 8	23.1 8	11.6 12
1949	1110.0 9	459.0 10	279.0 6	149.0 10	76.0 12	39.4 15	26.6 18	24.0 17	17.7 16	9.3 19
1950	770.0 14	351.0 15	181.0 15	152.0 9	102.0 7	52.0 11	39.0 11	29.7 10	20.2 12	10.5 15
1951	515.0 23	194.0 24	86.7 24	43.3 26	27.8 27	18.5 27	17.3 22	13.6 24	11.1 23	6.7 24
1952	372.0 27	167.0 25	77.0 26	50.0 25	33.5 24	21.4 24	17.8 21	15.7 21	10.8 24	7.5 23
1953	331.0 29	111.0 33	48.8 32	42.1 27	23.7 28	12.9 28	9.5 29	7.8 30	6.8 28	3.5 29
1954	238.0 34	150.0 28	65.4 30	31.3 32	19.7 30	11.4 29	7.6 32	5.7 34	3.9 35	1.9 35
1955	546.0 22	375.0 14	162.0 17	78.1 18	39.6 21	20.0 26	13.3 27	10.0 27	6.6 29	3.3 30
1956	124.0 38	43.7 39	19.4 40	9.1 40	4.5 40	2.3 40	1.5 40	1.1 40	0.7 40	0.7 40
1957	1010.0 10	552.0 6	252.0 8	154.0 7	116.0 6	96.0 4	75.1 4	56.8 4	39.1 4	19.6 5
1958	382.0 26	135.0 31	67.7 29	50.4 24	31.9 26	22.2 22	16.8 23	15.5 22	13.9 21	7.6 22
1959	1430.0 6	981.0 4	456.0 4	225.0 4	144.0 4	79.8 5	66.7 2	71.2 3	54.1 3	27.4 3
1960	11000.0 1	4190.0 1	1850.0 1	880.0 1	443.0 1	224.0 1	153.0 1	116.0 1	81.0 1	48.9 1
1961	1170.0 8	404.0 12	177.0 16	132.0 11	77.4 11	53.2 10	39.4 9	38.0 7	27.7 7	16.2 7
1962	661.0 16	341.0 16	187.0 12	153.0 8	79.6 10	43.3 14	30.2 15	25.4 14	18.7 15	15.8 9
1963	403.0 24	165.0 26	79.6 25	39.0 28	32.4 25	21.3 25	15.3 25	14.3 23	11.7 22	8.3 21
1964	217.0 35	74.0 36	40.2 34	33.4 31	19.3 31	9.6 33	6.4 34	5.2 35	4.7 33	2.8 32
1965	1520.0 5	523.0 8	226.0 9	106.0 12	53.1 16	27.6 19	18.9 19	18.7 19	16.8 18	12.4 11
1966	286.0 32	146.0 29	64.2 31	31.0 33	19.0 32	10.2 31	8.9 30	7.0 31	5.2 31	2.8 33
1967	238.0 33	81.3 35	35.6 36	18.7 35	12.6 35	9.9 32	8.1 31	6.4 33	5.0 32	2.8 34
1968	1010.0 11	382.0 13	187.0 13	90.6 15	73.9 13	54.7 8	40.1 8	30.5 9	20.4 11	10.7 14
1969	400.0 25	165.0 27	72.0 27	33.9 30	19.9 29	11.3 30	11.4 28	9.2 28	8.6 26	5.0 26
1970	652.0 17	230.0 21	102.0 23	62.7 23	37.3 22	21.8 23	15.0 26	11.4 26	7.6 27	4.4 27
1971	304.0 31	111.0 32	48.0 33	24.0 34	14.7 34	7.3 35	5.1 35	6.7 32	4.5 34	3.8 28
1972	159.0 37	81.7 34	36.0 35	17.2 36	9.1 36	4.7 36	3.2 38	2.6 38	2.6 38	1.7 36
1973	706.0 15	309.0 17	185.0 14	90.1 16	83.5 9	55.6 7	45.5 6	39.7 6	30.5 6	18.2 6
1974	586.0 20	236.0 20	110.0 22	65.8 21	48.1 18	35.5 16	29.1 16	26.0 13	21.9 9	15.9 8

## MONTHLY DURATION TABLE

COUNCIL CREEK NEAR STILLWATER, OKLAHOMA

PERIOD 1934-1974

CLASS LIMIT	TOTAL PERCENT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
0.00	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0.01	67.0	82.3	89.7	88.9	92.6	88.4	72.6	47.9	30.1	35.6	38.7	64.3	75.6
0.02	66.5	81.9	89.5	88.9	92.3	88.0	72.2	47.0	29.7	35.4	38.2	63.8	74.6
0.03	66.1	81.5	88.8	88.8	92.1	87.3	71.9	46.7	29.5	35.0	38.1	62.5	73.5
0.05	65.1	79.8	87.6	88.5	91.5	85.5	71.5	45.9	28.9	34.9	37.6	60.3	71.4
0.07	64.7	79.8	87.5	88.2	91.5	85.1	70.9	45.2	28.5	34.5	37.3	59.6	70.6
0.10	63.5	77.6	85.8	85.0	90.1	84.3	70.4	44.0	28.3	34.0	36.9	58.6	69.4
0.15	58.5	71.0	73.9	81.0	84.6	80.8	67.6	39.7	25.2	31.3	33.3	49.6	65.6
0.22	53.6	65.3	67.2	74.0	81.2	77.3	63.7	36.4	22.7	30.2	28.4	40.8	57.2
0.33	48.5	56.5	61.4	67.2	75.9	73.9	59.0	32.3	20.5	28.2	24.8	36.5	47.1
0.48	45.4	49.7	56.6	64.0	71.6	71.3	57.1	30.7	19.0	25.9	23.1	35.2	42.3
0.71	38.9	39.1	46.8	56.7	64.7	65.1	50.8	24.1	15.9	23.1	21.0	29.8	30.5
1.10	34.4	32.0	39.9	51.3	58.8	59.2	45.4	20.6	13.4	19.7	19.7	27.6	25.8
1.60	28.2	22.9	32.0	44.0	51.1	48.1	37.6	17.1	10.5	16.1	16.5	22.5	20.4
2.30	23.1	17.2	23.6	36.9	43.0	39.2	32.4	13.5	8.1	13.3	14.3	18.3	17.0
3.40	17.0	12.2	17.1	27.3	29.3	30.2	22.9	10.8	6.7	11.5	10.2	14.1	11.7
5.00	12.8	6.3	10.4	20.2	20.9	23.4	18.9	9.0	5.2	9.8	8.9	10.8	9.3
7.40	9.1	2.9	6.6	12.2	14.8	18.6	15.4	7.8	4.1	8.5	6.9	6.1	5.2
11.00	7.2	2.2	4.2	9.8	11.5	14.6	12.9	6.3	3.8	7.4	5.6	4.5	3.8
16.00	5.9	1.7	2.9	7.6	9.3	11.8	10.7	5.7	3.1	6.4	4.5	3.4	3.1
24.00	4.8	1.3	2.1	6.0	8.0	9.6	8.5	4.5	2.6	5.5	4.0	2.9	2.1
35.60	4.0	0.8	1.4	4.8	6.7	8.1	7.0	4.2	2.1	4.9	3.4	2.4	1.6
52.00	3.3	0.6	0.8	4.0	5.3	6.8	6.1	3.5	1.9	4.1	2.8	1.8	1.4
76.00	2.5	0.6	0.7	2.7	3.7	5.5	5.0	2.8	1.2	3.1	2.5	1.4	1.0
110.00	1.9	0.6	0.4	1.9	2.9	4.2	4.2	2.1	0.7	2.2	2.3	0.9	0.6
170.00	1.3	0.4	0.2	1.1	2.1	3.2	3.1	1.5	0.6	1.6	1.4	0.6	0.1
250.00	0.9	0.2	0.1	1.0	1.0	2.0	2.3	1.1	0.4	1.1	1.1	0.3	0.1
360.00	0.6	0.2	0.0	0.3	0.7	1.3	1.5	0.7	0.4	0.7	0.6	0.1	0.1
540.00	0.3	0.0	0.0	0.2	0.4	0.8	0.7	0.5	0.1	0.6	0.5	0.1	0.0
790.00	0.2	0.0	0.0	0.2	0.2	0.6	0.2	0.2	0.1	0.4	0.2	0.0	0.0
1200.00	0.1	0.0	0.0	0.1	0.1	0.2	0.1	0.1	0.1	0.2	0.2	0.0	0.0
1700.00	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.1	0.0	0.0
2500.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0
3800.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0

## STATISTICS OF ANNUAL DISCHARGE FOR WATER YEARS, 1935-74

Units of annual Discharge	Mean	Standard Deviation	Coefficient of Variation	Skew Coefficient	First Order Serial Correlation Coefficient
CFS	10.6	10.6	1.00	2.27	0.375
LOGS of CFS	0.839	0.428		-0.229	0.349

ARKANSAS RIVER BASIN

85

07163500 CIMARRON RIVER NEAR OILTON, OKLA.

LOCATION.--Lat 36°05'48", long 96°34'52", in SW 1/4 sec.28, T.19 N., R.7 E., at bridge on State Highway 99 and 51, 0.5 mi (0.8 km) north of Oilton, 4.25 mi (6.8 km) upstream from Buckeye Creek, and at mile 35.1 (56.5 km).

DRAINAGE AREA.--18,669 mi<sup>2</sup> (48,352 km<sup>2</sup>), of which 4,926 mi<sup>2</sup> (12,758 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD.--October 1934 to September 1945.

AVERAGE DISCHARGE.--11 years (1935-45), 1,244 ft<sup>3</sup>/s (35.2 m<sup>3</sup>/s).

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

CIMARRON RIVER AT WILTON, OKLAHOMA																																							
CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34				
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS				
1935																																				548919.0			
1936	5	6		1	8	9	1	1	6	4	8	2	17	24	21	36	73	24	26	20	20	16	9	8	6	4	4	3	1	1	1		1		211622.0				
1937											3	2	14	19	39	65	45	43	20	16	18	18	6	11	8	7	6	3	1	2	1			1		211256.0			
1938																80	12	31	42	20	19	20	27	17	23	14	11	16	14	6	5	6		2		432784.0			
1939									1	11	7	5	4	2	62	61	57	30	32	34	18	11	9	6	6	3	3	3									145455.0		
1940									7	45	41	21	21	22	14	14	22	28	29	24	18	12	12	7	10	10	5	1	2	1							134438.0		
1941																																					482220.0		
1942													9	11	6	9	11	45	56	52	33	24	19	13	15	17	12	8	9	4	4	7	1				1221235.0		
1943																				5	13	27	77	46	41	33	34	24	15	12	5	11	5	5	7	4	1	465321.0	
1944																3	31	15	7	17	28	52	67	39	32	25	13	10	8	6	3	1	2		2	2	1	1	480926.0
1945																1	13	26	21	32	36	51	33	23	17	19	28	21	15	11	8	4	4	1	1	1		664792.0	
																	5	12	26	29	49	63	34	27	19	18	28	9	11	11	7	2	2	1	1				

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	5	4018	100.0	9	14.00	59	3928	97.8	18	260.0	358	2242	55.8	27	4900	74	206	5.1
1	1.00	6	4013	99.9	10	19.00	38	3869	96.3	19	360.0	357	1884	46.9	28	6800	36	132	3.2
2	1.40	0	4007	99.7	11	26.00	51	3831	95.3	20	500.0	343	1527	38.0	29	9400	40	96	2.3
3	1.90	1	4007	99.7	12	36.00	77	3780	94.1	21	690.0	225	1184	29.5	30	13000	19	56	1.3
4	2.70	8	4006	99.7	13	50.00	209	3703	92.2	22	960.0	182	959	23.9	31	18000	13	37	.9
5	3.70	9	3998	99.5	14	70.00	230	3494	87.0	23	1300.0	197	777	19.3	32	25000	14	24	.5
6	5.10	1	3989	99.3	15	97.00	262	3264	81.2	24	1800.0	166	580	14.4	33	35000	7	10	.2
7	7.10	8	3988	99.3	16	130.00	429	3002	74.7	25	2500.0	119	414	10.3	34	48000	3	3	.0
8	9.90	52	3980	99.1	17	190.00	331	2573	64.0	26	3500.0	89	295	7.3					

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

CIMARRON RIVER AT OILTON, OKLAHOMA																				
YEAR	1		3		7		14		30		60		90		120		183		ANNUAL	
1936	56.00	7	64.00	7	68.90	7	80.90	7	111.00	7	127.00	7	137.00	5	204.00	5	302.00	5	1380.00	7
1937	0.00	1	0.00	1	0.43	1	1.00	1	2.90	1	15.90	2	83.70	3	90.90	2	301.00	4	572.00	3
1938	14.00	3	16.70	3	21.60	3	29.70	3	51.10	3	64.70	3	66.00	2	92.50	3	143.00	2	584.00	4
1939	72.00	8	74.30	8	80.90	8	83.40	8	86.40	6	106.00	6	157.00	6	148.00	4	167.00	3	1120.00	5
1940	8.00	2	8.33	2	9.57	2	12.10	2	13.30	2	15.10	1	15.60	1	16.90	1	32.80	1	335.00	1
1941	20.00	4	22.70	4	32.30	4	34.40	4	53.80	4	78.30	5	263.00	7	268.00	7	324.00	7	514.00	2
1942	126.00	9	139.00	9	168.00	9	240.00	9	399.00	10	489.00	10	676.00	10	768.00	10	2300.00	10	2390.00	9
1943	130.00	10	170.00	10	254.00	10	262.00	10	276.00	9	345.00	9	442.00	8	508.00	8	684.00	9	2440.00	10
1944	37.00	5	41.00	5	48.60	5	55.10	5	61.30	5	75.70	4	120.00	4	219.00	6	323.00	6	1230.00	6
1945	51.00	6	53.00	6	58.60	6	80.40	6	159.00	8	236.00	8	454.00	9	560.00	9	676.00	8	1490.00	8

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

CIMARRON RIVER AT OILTON, OKLAHOMA																				
YEAR	1	3	7	15	30	60	90	120	183	ANNUAL										
1935	50800.0	1	28700.0	3	16100.0	4	8940.0	5	6440.0	4	5630.0	2	4110.0	2	3520.0	2	2570.0	3	1500.0	3
1936	26300.0	7	18000.0	7	10600.0	8	6080.0	8	3330.0	8	1860.0	8	1280.0	9	1130.0	9	854.0	9	578.0	9
1937	16300.0	9	11000.0	9	6970.0	9	5000.0	9	3050.0	9	1650.0	9	1360.0	8	1230.0	8	868.0	8	579.0	8
1938	27400.0	6	21100.0	6	14600.0	5	8970.0	4	6180.0	5	4310.0	5	3400.0	7	2760.0	7	2220.0	6	1190.0	7
1939	6580.0	11	5140.0	10	3620.0	10	2170.0	10	1420.0	10	1120.0	10	1030.0	10	880.0	10	646.0	11	399.0	10
1940	9290.0	10	4870.0	11	3090.0	11	1590.0	11	1400.0	11	934.0	11	961.0	11	874.0	11	692.0	10	367.0	11
1941	22100.0	8	16700.0	8	11200.0	7	6350.0	7	6110.0	6	5390.0	3	3990.0	3	3120.0	4	2300.0	4	1320.0	4
1942	48300.0	2	39200.0	2	28900.0	1	20700.0	1	13800.0	1	7600.0	1	6780.0	1	5320.0	1	4200.0	1	3350.0	1
1943	48100.0	3	41500.0	1	27100.0	2	16700.0	2	9780.0	2	5240.0	4	3630.0	5	2820.0	6	2040.0	7	1270.0	6
1944	43500.0	5	26000.0	5	13800.0	6	8910.0	6	6780.0	3	4190.0	6	3600.0	6	3020.0	5	2230.0	5	1310.0	5
1945	44700.0	4	28000.0	4	16900.0	3	9520.0	3	5610.0	7	3680.0	7	3690.0	4	3370.0	3	2710.0	2	1820.0	2

STATISTICS OF ANNUAL DISCHARGE FOR WATER YEARS, 1935-45

Units of annual Discharge	Mean	Standard Deviation	Coefficient of Variation	Skew Coefficient	First Order Serial Correlation Coefficient
CFS	1,244	849	0.68	1.53	0.18
LOGS of CFS	3.006	0.297		-0.078	0.297

## ARKANSAS RIVER BASIN

07164000 CIMARRON RIVER AT MANNFORD, OKLA.

LOCATION.--Lat 36°09'40", long 96°23'10", in SW 1/4 NW 1/4 sec.5, T.19 N., R.9 E., near left bank on downstream side of pier of bridge on county road, 0.5 mi (0.8 km) north of Mannford, 1.5 mi (2.4 km) downstream from House Creek, and at mile 17.7 (28.5 km).

DRAINAGE AREA.--18,849 mi<sup>2</sup> (48,819 km<sup>2</sup>) of which 4,926 mi<sup>2</sup> (12,758 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD.--October 1948 to September 1950, October 1959 to June 1963.

AVERAGE DISCHARGE.--15 years (1939-50, 1960-62), 1,785 ft<sup>3</sup>/s (50.5 m<sup>3</sup>/s).

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

CIMARRON RIVER AT MANNFORD, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS	
1939		1	1	3	12	2	4	4	5	40	67	35	30	56	33	24	13	10	4	10	2	4	2	3											157509.0	
1940	2	15	12	39	30	18	25	15	12	12	19	27	23	22	19	15	13	11	13	9	9	2	3												197354.0	
1941									13	8	7	10	7	32	58	42	31	27	19	19	12	19	15	10	12	6	5	4	6	3					548045.0	
1942														4	11	19	52	56	38	32	34	30	19	13	15	6	7	10	7	4	6	2		1392674.0		
1943														2	25	17	9	13	21	56	46	30	34	18	16	9	5	3	4	2	1	2	1	2	2	540033.0
1944														12	4	42	22	36	51	34	24	18	24	18	21	16	12	13	8	4	3	1	1	1	512422.0	
1945														1	13	20	24	43	60	40	27	29	14	22	16	10	13	7	14	5	2	2	1	1	712029.0	
1946									5	8	3	8	5	13	8	19	38	99	49	37	23	14	12	8	7	4	1	1		2	1			308610.0		
1947									1	7	20	13	20	47	25	40	43	18	17	19	16	21	12	12	8	6	8	4	2	1	2	2	1		635997.0	
1948									2	16	35	25	29	55	27	23	19	24	19	22	10	14	13	12	4	6	2	3	2	2	1	1			444762.0	
1949														19	10	14	36	18	22	27	33	31	29	34	21	20	14	13	7	5	3	1	4	2	1	959282.0
1950														15	25	38	79	45	18	13	22	25	25	15	15	11	3	5	3	2	1	3	2		623089.0	
1960																		6	49	33	58	51	39	32	33	19	15	12	5	8		1		2	1354041.0	
1961																																				711476.0
1962																																				679509.0

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	5479	100.0	9	57.00	124	5231	95.5	18	870.0	438	2022	36.9	27	13000	45	122	2.2
1	5.00	2	5479	100.0	10	77.00	146	5107	93.2	19	1200.0	324	1584	28.9	28	18000	22	77	1.4
2	6.80	16	5477	100.0	11	100.00	244	4961	90.5	20	1600.0	337	1260	23.0	29	24000	23	55	1.0
3	9.20	13	5461	99.7	12	140.00	298	4717	86.1	21	2200.0	233	923	16.8	30	33000	17	32	.5
4	12.00	42	5448	99.4	13	190.00	374	4419	80.7	22	2900.0	196	690	12.6	31	45000	10	15	.2
5	17.00	42	5406	98.7	14	260.00	502	4045	73.8	23	3900.0	137	494	9.0	32	61000	3	5	.0
6	23.00	25	5364	97.9	15	350.00	538	3543	64.7	24	5300.0	110	357	6.5	33	82000		2	.0
7	31.00	53	5339	97.4	16	470.00	528	3005	54.8	25	7200.0	80	247	4.5	34	110000	2	2	.0
8	42.00	55	5286	96.5	17	640.00	455	2477	45.2	26	9800.0	45	167	3.0					



## STATION NUMBER 07164000

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## CIMARRON RIVER AT MANFORD, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1940	5.00 1	7.00 1	7.57 1	9.57 1	13.20 1	17.30 1	16.60 1	17.90 1	35.80 1	356.00 1
1941	22.00 2	24.00 2	35.30 3	38.20 3	59.00 3	86.40 3	292.00 5	294.00 5	354.00 3	699.00 3
1942	129.00 10	144.00 9	176.00 9	275.00 12	474.00 13	597.00 13	753.00 13	877.00 13	2630.00 14	2770.00 14
1943	120.00 9	173.00 10	274.00 14	282.00 13	298.00 11	387.00 11	506.00 11	548.00 10	782.00 10	2750.00 13
1944	56.00 5	57.70 5	65.00 5	68.60 5	77.90 5	92.50 4	176.00 3	276.00 4	387.00 4	1430.00 5
1945	61.00 6	61.00 6	67.70 6	90.40 6	173.00 7	258.00 7	486.00 10	593.00 11	714.00 8	1570.00 6
1946	95.00 8	101.00 8	118.00 8	131.00 8	185.00 8	262.00 8	472.00 9	499.00 9	1250.00 12	1940.00 9
1947	25.00 3	26.30 3	29.10 2	33.10 2	54.90 2	213.00 6	224.00 4	267.00 3	461.00 6	631.00 2
1948	35.00 4	40.30 4	47.90 4	58.40 4	68.30 4	70.90 2	76.00 2	81.50 2	116.00 2	1650.00 7
1949	72.00 7	80.00 7	91.60 7	94.20 7	105.00 6	191.00 5	351.00 7	362.00 7	738.00 9	1650.00 8
1950	170.00 11	174.00 11	179.00 10	193.00 9	266.00 9	298.00 9	311.00 6	329.00 6	426.00 5	2220.00 11
1961	218.00 13	220.00 13	237.00 12	273.00 11	418.00 12	544.00 12	564.00 12	602.00 12	898.00 11	2070.00 10
1962	232.00 14	245.00 14	264.00 13	386.00 14	688.00 14	922.00 14	968.00 14	1130.00 14	1910.00 13	2420.00 12
1963	180.00 12	190.00 12	199.00 11	209.00 10	282.00 10	351.00 10	400.00 8	433.00 8	505.00 7	1160.00 4

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## CIMARRON RIVER AT MANFORD, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1939	6570.0 15	5590.0 15	3950.0 15	2440.0 15	1570.0 15	1220.0 15	1060.0 15	925.0 15	688.0 15	432.0 15
1940	54400.0 3	21100.0 12	10100.0 13	4910.0 13	3170.0 13	1750.0 13	1600.0 13	1380.0 13	1030.0 13	539.0 14
1941	22700.0 14	17200.0 13	11300.0 12	6940.0 12	6320.0 9	6070.0 7	4530.0 6	3550.0 7	2630.0 8	1500.0 9
1942	50200.0 7	43000.0 4	29400.0 4	21700.0 3	14700.0 3	8090.0 3	7390.0 1	6830.0 1	4710.0 1	3820.0 1
1943	52900.0 5	46800.0 3	31400.0 3	19500.0 4	11400.0 4	6110.0 6	4220.0 7	3290.0 9	2360.0 9	1480.0 10
1944	44600.0 9	26600.0 10	13900.0 11	9000.0 11	6930.0 8	4400.0 9	3760.0 9	3150.0 10	2350.0 10	1400.0 11
1945	51500.0 6	30500.0 8	17500.0 9	10000.0 8	5920.0 10	3910.0 10	3880.0 8	3560.0 6	2890.0 7	1950.0 5
1946	25500.0 12	16200.0 14	8520.0 14	4540.0 14	2540.0 14	1480.0 14	1100.0 14	1060.0 14	979.0 14	846.0 13
1947	46800.0 8	36700.0 5	21200.0 6	12700.0 6	8250.0 6	7720.0 4	5600.0 4	4480.0 4	3040.0 4	1740.0 7
1948	39300.0 11	27700.0 9	17800.0 8	12200.0 7	8120.0 7	5210.0 8	3690.0 10	2930.0 11	2250.0 11	1220.0 12
1949	71300.0 2	55800.0 2	41000.0 2	24900.0 2	16700.0 2	9780.0 1	7070.0 2	5620.0 2	4630.0 2	2630.0 3
1950	39400.0 10	33200.0 7	27400.0 5	17800.0 5	10800.0 5	6510.0 5	4850.0 5	4060.0 5	2980.0 5	1710.0 8
1960	125000.0 1	105000.0 1	65100.0 1	33400.0 1	17400.0 1	9190.0 2	6610.0 3	5260.0 3	4230.0 3	3700.0 2
1961	53500.0 4	36100.0 6	18500.0 7	9690.0 9	5610.0 12	3830.0 11	3200.0 11	3370.0 8	2930.0 6	1950.0 4
1962	24600.0 13	23000.0 11	15200.0 10	9600.0 10	5670.0 11	3540.0 12	2820.0 12	2350.0 12	1900.0 12	1860.0 6

## STATISTICS OF ANNUAL DISCHARGE FOR WATER YEARS, 1939-50, 1960-62

Units of annual Discharge	Mean	Standard Deviation	Coefficient of Variation	Skew Coefficient	First Order Serial Correlation Coefficient
CFS	1,785	982	0.55	0.92	0.04
LOGS of CFS	3.184	0.265		-0.626	0.317



## ARKANSAS RIVER BASIN

07164500 ARKANSAS RIVER AT TULSA, OKLA.

LOCATION.--Lat 36°08'37", long 96°00'13", in NW 1/4 sec.11, T.19 N., R.12 E., Tulsa County, near left bank on downstream side of pier of bridge on U.S. Highway 66 in Tulsa, 10.1 mi (16.3 km) upstream from Polecat Creek, 15.1 mi (24.3 km) downstream from Keystone Dam, and at mile 523.7 (842.6 km).

DRAINAGE AREA.--74,615 mi<sup>2</sup> (193,253 km<sup>2</sup>), of which 12,541 mi<sup>2</sup> (32,481 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD.--October 1925 to September 1974. Statistical summaries for this station are divided into unregulated and regulated periods.

AVERAGE DISCHARGE.--39 years (1926-64), 6,549 ft<sup>3</sup>/s (185 m<sup>3</sup>/s); 10 years (1965-74), 6,860 ft<sup>3</sup>/s (194 m<sup>3</sup>/s).

REMARKS.--Except for 109 mi<sup>2</sup> (282 km<sup>2</sup>) intervening area, flow completely regulated by Keystone Lake in Oklahoma since September 1964. Prior minor regulation by John Martin Lake in Colorado and by Great Salt Plains Lake in Oklahoma.

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

## ARKANSAS RIVER AT TULSA, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34										
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS										
1926											10	17	36	98	31	37	32	34	16	15	17		7	7	4		4									1133480.0									
1927														24	36	52	49	29	29	31	24	12	21	16	14	7	7	4	8	2					4345490.0										
1928													11	9	88	64	32	30	32	31	14	8	22	6	9	4	3	3							2615640.0										
1929													21	4	33	28	10	44	53	25	22	29	13	21	17	16	9	14	6						4050920.0										
1930											6		35	74	57	68	27	35	12	11	9	7	6	4	3	4	4	3							1442590.0										
1931							3	4	4	2	19	9	31	95	44	34	20	42	23	17	7	2	4		3	2										957890.0									
1932											17	3	17	13	21	34	45	63	32	33	18	16	10	8	14	7	5	1	3	1						1426620.0									
1933											14	3	68	69	56	29	23	22	19	20	8	8	6	5	5	4	4	2								838570.0									
1934							21	7	8	2	2	4	9	73	74	38	32	30	19	16	5	12	6	3	2	2										613450.0									
1935											6	40	61	46	32	36	20	25	11	19	16	8	8	6	6	7	4	4	9	1						2391770.0									
1936							2		12	3	11	15	57	43	43	67	27	30	14	19	6	6	3	3	1	1	1		2							672840.0									
1937													35	29	43	66	69	31	17	20	8	10	9	7	12	4	3	1	1							1372490.0									
1938											3	11	64	35	28	41	31	25	27	18	11	14	15	9	10	9	6	2	1	3	2					2021989.0									
1939										5	8	6	21	95	41	27	21	23	13	12	6	6	2	3	3	3										749061.0									
1940							2	13	26	69	26	11	19	41	16	15	25	25	28	15	9	12	8	2	1		1		1	1						823366.0									
1941											23	8	12	3	8	78	56	39	23	21	18	20	18	9	11	5	4	4	2	3						1988381.0									
1942														6	2	9	71	66	34	36	30	22	22	22	11	6	11	7	7	3						5090280.0									
1943														1	21	17	20	31	69	61	36	28	28	18	7	7	5	2	2	1	2	2				2610240.0									
1944														6	28	34	60	24	31	28	24	21	24	27	12	10	6	10	4	8	2	5	1	1		3279500.0									
1945														10	12	8	21	23	71	51	31	31	19	22	20	12	13	7	4	2	3	2	3		4057497.0										
1946											10	16	8	13	7	20	22	30	79	51	40	34	18	5	4	2	1		1		1	1	2			1752180.0									
1947											4	14	15	33	60	43	31	22	31	19	14	15	11	21	9	7	5	4	2	1	1	3				2955066.0									
1948											1	2	21	53	19	38	25	26	35	23	14	14	17	13	10	11	11	10	9	11	3					2766011.0									
1949														27	23	37	17	33	30	41	39	22	20	20	27	14	5	3	5	2						4917680.0									
1950														2	41	80	81	34	14	16	25	13	11	21	8	4	3	5	3	4						2825030.0									
1951																1	59	67	34	34	28	17	19	10	16	9	23	15	10	5	9	7	2			5702840.0									
1952														10	14	8	24	31	10	7	38	67	64	40	33	7	4	4	5							1992366.0									
1953														10	36	20	21	36	95	36	32	27	18	10	11	7	5	1								665092.0									
1954														2	12	10	20	21	23	16	18	68	72	23	27	15	10	8	6	4	1	1	1			467319.0									
1955														9	2	29	22	12	56	86	35	10	16	6	9	10	3	5	13	11	7	3	4	6	1	5	5	1177808.0							
1956														4	12	16	9	3	4	4	14	14	126	87	36	8	3	6	4	3	3	2	1	1	1	2		695831.0							
1957														6	2	4	2	9	16	29	28	34	46	5	1	1	14	12	19	10	9	12	17	12	12	6	10	10	10	6	13	5	3	2	5273191.0
1958																																							2832920.0						
1959																																							2038708.0						
1960																																							5132510.0						
1961																																							3849500.0						
1962																																							3509430.0						
1963																																							1431740.0						
1964																																							885443.0						

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	14245	100.0	9	260.00	227	13871	97.4	18	3000.00	1274	6274	44.0	27	35000	138	458	3.2
1	30.00	6	14245	100.0	10	340.00	281	13644	95.8	19	4000.00	1018	5000	35.1	28	45000	128	320	2.2
2	39.00	2	14239	100.0	11	450.00	424	13363	93.8	20	5200.00	869	3982	28.0	29	60000	70	192	1.3
3	52.00	8	14237	99.9	12	590.00	786	12939	90.8	21	6800.00	758	3113	21.9	30	78000	66	122	.8
4	68.00	16	14229	99.9	13	780.00	908	12153	85.3	22	8900.00	598	2355	16.5	31	100000	30	56	.3
5	89.00	69	14213	99.8	14	1000.00	1104	11245	78.9	23	12000.00	366	1757	12.3	32	130000	20	26	.1
6	120.00	46	14184	99.3	15	1300.00	1187	10141	71.2	24	15000.00	405	1391	9.8	33	180000	4	6	.0
7	150.00	117	14098	99.0	16	1800.00	1356	8954	62.9	25	20000.00	287	986	6.9	34	230000	2	2	.0
8	200.00	110	13981	98.1	17	2300.00	1324	7598	53.3	26	26000.00	241	699	4.9					

## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## ARKANSAS RIVER AT TULSA, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1927	460.00 16	487.00 16	517.00 16	576.00 17	932.00 19	2400.00 30	2580.00 28	2720.00 27	4620.00 29	5740.00 19
1928	1860.00 36	1860.00 35	1860.00 33	1910.00 31	1940.00 30	2250.00 26	2300.00 25	2440.00 25	4070.00 27	10500.00 30
1929	840.00 24	840.00 24	840.00 22	905.00 22	987.00 21	1260.00 21	1620.00 20	2740.00 28	5580.00 31	8430.00 26
1930	960.00 26	960.00 26	960.00 25	1050.00 24	1310.00 24	1490.00 22	1840.00 23	1770.00 21	1890.00 18	8800.00 27
1931	565.00 19	565.00 19	606.00 18	728.00 19	840.00 17	1170.00 20	1230.00 17	1480.00 19	1630.00 14	3740.00 15
1932	190.00 6	190.00 6	213.00 6	288.00 6	412.00 9	565.00 8	555.00 5	807.00 7	2300.00 21	3440.00 14
1933	460.00 17	460.00 15	460.00 13	498.00 13	519.00 12	590.00 9	747.00 12	909.00 9	995.00 7	2860.00 10
1934	280.00 7	297.00 9	301.00 8	325.00 9	441.00 11	689.00 13	967.00 15	1010.00 12	1140.00 9	2270.00 7
1935	100.00 3	100.00 3	100.00 3	104.00 3	114.00 3	310.00 4	568.00 6	1080.00 13	1680.00 15	2080.00 5
1936	500.00 18	500.00 18	500.00 15	500.00 14	552.00 14	773.00 15	849.00 14	1230.00 14	1490.00 11	6320.00 21
1937	100.00 4	117.00 4	136.00 4	169.00 4	256.00 5	418.00 5	611.00 7	1400.00 17	1710.00 16	2170.00 6
1938	350.00 12	350.00 11	473.00 14	542.00 15	609.00 16	674.00 12	659.00 8	757.00 5	1020.00 8	3370.00 13
1939	688.00 22	705.00 20	721.00 20	750.00 20	849.00 18	955.00 17	984.00 16	1000.00 11	1180.00 10	5440.00 18
1940	147.00 5	149.00 5	153.00 5	174.00 5	205.00 4	261.00 3	273.00 3	282.00 3	389.00 3	1680.00 3
1941	372.00 13	372.00 12	385.00 11	391.00 11	420.00 10	664.00 11	1720.00 21	1690.00 20	2010.00 19	3070.00 11
1942	1310.00 31	1360.00 30	1410.00 30	1590.00 29	1900.00 28	2950.00 33	3650.00 33	4430.00 33	8580.00 36	9160.00 28
1943	1400.00 32	1800.00 34	2340.00 36	2490.00 36	2670.00 35	3470.00 34	4290.00 35	4590.00 34	5420.00 30	11900.00 34
1944	694.00 22	723.00 22	758.00 21	852.00 21	998.00 22	1150.00 19	1340.00 19	1480.00 18	1560.00 12	6100.00 20
1945	1540.00 34	1590.00 31	1700.00 31	2000.00 34	3510.00 36	3650.00 35	4320.00 36	5850.00 36	6640.00 33	11400.00 32
1946	790.00 23	801.00 23	853.00 23	944.00 23	1220.00 23	2060.00 24	3210.00 31	3270.00 32	7880.00 35	10700.00 31
1947	280.00 8	284.00 7	285.00 7	304.00 7	374.00 7	800.00 16	832.00 13	1260.00 15	1770.00 17	2570.00 8
1948	326.00 11	348.00 13	533.00 17	549.00 16	575.00 15	622.00 10	701.00 10	861.00 8	954.00 6	7900.00 23
1949	850.00 25	879.00 25	923.00 24	1110.00 25	1570.00 26	2370.00 29	3210.00 32	3090.00 30	7130.00 34	11600.00 33
1950	1750.00 35	1770.00 33	1890.00 34	1930.00 32	2080.00 31	2280.00 27	2320.00 26	2350.00 23	2750.00 22	9590.00 29
1951	1260.00 30	1290.00 29	1320.00 29	1340.00 26	1400.00 25	2240.00 25	2240.00 24	2370.00 24	3110.00 23	7920.00 24
1952	2620.00 38	2960.00 37	3190.00 37	3480.00 37	3750.00 37	4030.00 36	4230.00 34	5120.00 35	6300.00 32	17200.00 38
1953	300.00 10	307.00 10	316.00 10	336.00 10	376.00 8	449.00 6	550.00 4	650.00 4	823.00 4	2820.00 9
1954	290.00 9	293.00 8	309.00 9	314.00 8	342.00 6	532.00 7	687.00 9	941.00 10	909.00 5	1730.00 4
1955	85.00 2	87.70 2	89.10 2	96.40 2	107.00 2	150.00 2	178.00 2	212.00 2	239.00 2	997.00 2
1956	394.00 14	406.00 14	439.00 12	493.00 12	524.00 13	705.00 14	747.00 11	782.00 6	3150.00 25	4620.00 16
1957	30.00 1	30.70 1	34.30 1	46.60 1	61.10 1	93.20 1	138.00 1	154.00 1	179.00 1	429.00 1
1958	1220.00 29	1930.00 36	1980.00 35	2050.00 35	2430.00 34	2520.00 31	2590.00 29	2900.00 29	3620.00 26	16700.00 37
1959	615.00 20	711.00 21	1050.00 26	1430.00 28	1594.00 27	1730.00 23	1790.00 22	1860.00 22	2160.00 20	6470.00 22
1960	1200.00 28	1210.00 28	1310.00 28	1610.00 30	2150.00 32	4910.00 37	5650.00 37	6940.00 37	9010.00 37	12900.00 35
1961	1500.00 33	1610.00 32	1780.00 32	1940.00 33	2210.00 35	2580.00 32	2910.00 30	3170.00 31	4280.00 28	7950.00 25
1962	2100.00 37	2870.00 37	3290.00 38	3690.00 38	4970.00 38	6970.00 38	6740.00 38	7270.00 38	11800.00 38	14100.00 36
1963	1150.00 27	1180.00 27	1260.00 27	1420.00 27	1930.00 29	2370.00 28	2540.00 27	2640.00 26	3140.00 24	5290.00 17
1964	436.00 15	498.00 17	607.00 19	713.00 18	944.00 20	1150.00 18	1250.00 18	1300.00 16	1630.00 13	3180.00 12

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## ARKANSAS RIVER AT TULSA, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1926	34400.0 30	26600.0 31	22700.0 29	14500.0 32	9280.0 31	5460.0 32	5070.0 31	5320.0 29	4620.0 29	3110.0 29
1927	110000.0 12	99200.0 12	76800.0 13	58000.0 9	37300.0 12	23700.0 13	19900.0 13	17500.0 11	17100.0 5	11900.0 6
1928	71000.0 20	61100.0 22	44400.0 21	38700.0 18	28900.0 17	20000.0 18	16300.0 16	14100.0 16	10600.0 17	7150.0 16
1929	72800.0 18	65000.0 18	49500.0 16	43800.0 16	35300.0 14	30200.0 8	26400.0 5	22800.0 5	16600.0 7	11100.0 7
1930	54000.0 26	47700.0 26	40900.0 23	31500.0 21	14500.0 24	14300.0 22	10200.0 23	7980.0 25	6140.0 24	3950.0 24
1931	28000.0 33	23300.0 33	19800.0 33	13300.0 33	8510.0 32	7190.0 30	6210.0 29	5030.0 30	3700.0 31	2620.0 30
1932	45000.0 29	36100.0 29	21900.0 30	17000.0 28	12400.0 27	9770.0 27	7820.0 27	6280.0 27	4670.0 28	3900.0 26
1933	32800.0 31	23900.0 32	20900.0 32	18500.0 27	11900.0 28	6820.0 31	4730.0 33	3810.0 33	3400.0 32	2300.0 32
1934	15200.0 38	14100.0 38	10500.0 37	6490.0 38	4480.0 39	3660.0 38	2740.0 39	2250.0 39	2220.0 37	1680.0 38
1935	84400.0 17	75100.0 17	59100.0 15	46800.0 13	40000.0 9	28800.0 9	20400.0 12	15900.0 14	11300.0 16	6550.0 18
1936	46000.0 28	41500.0 27	25700.0 28	14700.0 31	8450.0 33	4850.0 34	3460.0 36	2810.0 37	2190.0 38	1840.0 36
1937	54000.0 27	34600.0 28	30300.0 26	21000.0 26	15800.0 25	10400.0 26	7840.0 26	7330.0 26	5360.0 26	3760.0 27
1938	91100.0 16	84800.0 15	70500.0 14	45400.0 14	31200.0 16	20800.0 17	15200.0 18	13100.0 17	10000.0 19	5540.0 20
1939	23400.0 36	20800.0 35	16700.0 35	10100.0 35	6810.0 35	4630.0 35	4310.0 34	3810.0 34	3010.0 35	2050.0 34
1940	66800.0 23	47800.0 25	28000.0 27	18800.0 30	8310.0 34	4970.0 33	4880.0 32	4900.0 31	4070.0 30	2250.0 33
1941	68400.0 21	64800.0 19	45700.0 20	27200.0 24	19600.0 22	17800.0 19	14800.0 19	11800.0 20	8820.0 21	5450.0 21
1942	115000.0 10	108000.0 10	80500.0 12	57700.0 10	42100.0 8	27100.0 12	28500.0 3	23000.0 4	18400.0 4	13900.0 4
1943	161000.0 4	142000.0 3	105000.0 4	62700.0 7	39600.0 10	22800.0 15	16300.0 17	12900.0 18	10400.0 18	7150.0 17
1944	158000.0 5	124000.0 9	90000.0 8	66200.0 5	52500.0 4	33700.0 4	26700.0 4	21700.0 6	16000.0 9	8960.0 11
1945	138000.0 9	132000.0 7	97800.0 6	63800.0 6	42400.0 7	27800.0 11	21300.0 10	19300.0 8	14300.0 10	11100.0 8
1946	155000.0 6	141000.0 4	83700.0 10	46100.0 15	24400.0 19	13600.0 23	9770.0 24	8590.0 24	7200.0 22	4800.0 23
1947	149000.0 7	141000.0 5	100000.0 5	58400.0 8	36300.0 13	31200.0 6	24400.0 7	20300.0 7	14200.0 11	8100.0 12
1948	68300.0 22	61900.0 21	44300.0 19	40800.0 17	37500.0 11	30600.0 7	22800.0 9	17700.0 10	13700.0 12	7560.0 15
1949	113000.0 11	106000.0 11	94400.0 7	67500.0 4	44600.0 4	33300.0 4	25200.0 6	23700.0 3	22200.0 3	13500.0 5
1950	96100.0 14	95600.0 13	81500.0 11	56700.0 11	43500.0 6	28600.0 10	21200.0 11	17300.0 12	12700.0 13	7740.0 14
1951	143000.0 8	130000.0 8	106000.0 3	84500.0 3	69600.0 2	57500.0 2	46600.0 2	37100.0 2	28100.0 2	15600.0 1
1952	30100.0 32	28300.0 30	21000.0 31	15200.0 29	10800.0 29	10500.0 25	9720.0 25	8790.0 23	7170.0 23	5440.0 22
1953	13200.0 39	10100.0 39	7400.0 39	7110.0 37	4740.0 38	3420.0 39	3320.0 37	3140.0 36	2810.0 36	1820.0 37
1954	21000.0 37	16000.0 37	10100.0 38	6330.0 39	5080.0 37	4060.0 37	3000.0 38	2460.0 38	1890.0 39	1280.0 39
1955	54300.0 25	48600.0 24	35300.0 25	30600.0 22	19500.0 23	16300.0 21	11600.0 22	8950.0 22	6080.0 25	3230.0 28
1956	94600.0 15	83800.0 16	52700.0 17	28100.0 23	15300.0 26	8130.0 28	5650.0 30	4420.0 32	3200.0 34	1900.0 35
1957	205000.0 2	182000.0 2	152000.0 2	102000.0 1	76700.0 1	68000.0 1	52300.0 1	40900.0 1	28600.0 1	14400.0 2
1958	56300.0 24	50800.0 23	37000.0 24	26900.0 25	22700.0 20	17300.0 20	13600.0 20	12400.0 19	11800.0 14	7760.0 13
1959	71600.0 19	63600.0 20	43600.0 22	33600.0 20	19600.0 21	11900.0 24	11700.0 21	9810.0 21	9010.0 20	5590.0 19
1960	242000.0 1	233000.0 1	181000.0 1	102000.0 2	58400.0 3	32200.0 5	23300.0 8	19000.0 9	16700.0 6	14000.0 3
1961	161000.0 3	141000.0 6	88000.0 9	50500.0 12	33100.0 15	22900.0 14	19200.0 14	16800.0 13	16500.0 8	10500.0 9
1962	107000.0 13	91100.0 14	58400.0 16	34500.0 19	28600.0 18	20900.0 16	16900.0 15	14700.0 15	11700.0 15	9610.0 10
1963	27600.0 34	23000.0 34	17900.0 34	11100.0 34	10200.0 30	7220.0 29	6700.0 28	5900.0 28	4740.0 27	3920.0 25

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

## ARKANSAS RIVER AT TULSA, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS	
1965				3	26	25	4	2		4	35	1	11	11	20	9	29	12	24	19	19	14	17	16	6	17	7	12	4	5	5	3	3	2	3082271.0	
1966								2	3	12	7	23	55	23	81	90	29	7	10	18	5															951536.0
1967	3	2	19	10	20	5	23	65	15	29	29	19	20	19	3	6	3	5	1	12	14	11	10	1	5	13	3									1248538.0
1968		1		1	2	6	12	6	6	32	30	24	27	29	34	23	11	21	13	12	24	9	27	11		3	1	1								1664968.0
1969								2	1	10	6	5	16	23	14	31	33	24	36	47	15	8	34	1	7	13	12	19	8							3315912.0
1970								2	8	16	53	22	17	25	19	23	32	29	22	26	12	4	7	16	17	3		2	5	2	3					1902649.0
1971					2	1	13	17	20	32	22	29	34	28	29	34	28	21	28	17	5	2	3													1086158.0
1972					1	1	3	13	23	47	23	29	26	27	38	48	20	18	32	9	3	5														1073580.0
1973	1	2		1	3	4	3	3	6	16	5	15	13	17	23	27	15	16	27	22	4	10	19	17	5	19	8	26	9	9	5	6	9		4953903.0	
1974				1		1	2	1		2	1	2	2	2	4	3	5	12	19	49	46	12	68	34	16	17	34	7	8	3	1	1	10	2		5765402.0

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	1	3652	100.0	9	870.00	103	3327	91.1	18	4500.0	173	1439	39.4	27	23000	72	228	6.2					
1	202.00	3	3651	100.0	10	1000.00	263	3224	88.3	19	5400.0	219	1266	34.7	28	28000	62	156	4.2					
2	240.00	5	3648	99.9	11	1300.00	162	2961	81.1	20	6500.0	204	1047	28.7	29	34000	32	94	2.5					
3	290.00	22	3643	99.8	12	1500.00	206	2799	76.6	21	7800.0	129	843	23.1	30	41000	20	62	1.6					
4	350.00	39	3621	99.2	13	1800.00	197	2593	71.0	22	9400.0	76	714	19.6	31	49000	9	42	1.1					
5	420.00	53	3582	98.1	14	2200.00	265	2396	65.6	23	11000.0	198	638	17.5	32	59000	10	33	.9					
6	500.00	22	3529	96.6	15	2600.00	267	2131	58.4	24	14000.0	87	440	12.0	33	70000	21	23	.6					
7	610.00	62	3507	96.0	16	3100.00	262	1864	51.0	25	16000.0	53	353	9.7	34	84000	2	2	.0					
8	730.00	118	3445	94.3	17	3800.00	163	1602	43.9	26	20000.0	72	300	8.2										

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## ARKANSAS RIVER AT TULSA, OKLAHOMA

YEAR	1		3		7		14		30		60		90		120		183		ANNUAL	
1966	944.00	9	1180.00	9	1680.00	9	1790.00	7	1990.00	7	2500.00	7	2450.00	7	2520.00	6	3090.00	6	7100.00	6
1967	327.00	4	330.00	2	337.00	2	338.00	1	453.00	1	469.00	1	570.00	1	751.00	1	1140.00	1	1650.00	1
1968	202.00	2	231.00	1	316.00	1	504.00	2	663.00	2	760.00	2	1480.00	2	1680.00	2	2590.00	4	4220.00	3
1969	242.00	3	402.00	3	897.00	5	1850.00	9	2030.00	8	3470.00	8	4200.00	9	4400.00	8	4730.00	8	5880.00	5
1970	631.00	8	860.00	8	924.00	6	1130.00	4	1380.00	5	1820.00	6	2100.00	5	2260.00	5	2790.00	5	7770.00	8
1971	466.00	6	526.00	4	823.00	4	984.00	3	1080.00	3	1180.00	3	1530.00	3	1760.00	3	1760.00	2	4970.00	4
1972	516.00	7	839.00	7	1020.00	7	1170.00	5	1320.00	4	1710.00	4	2390.00	6	3280.00	7	3520.00	7	3590.00	2
1973	448.00	5	687.00	6	790.00	3	1170.00	6	1480.00	6	1760.00	5	1780.00	4	2150.00	4	2320.00	3	7110.00	7
1974	170.00	1	543.00	5	1110.00	8	1830.00	8	2520.00	9	3570.00	9	3470.00	8	4730.00	9	12500.00	9	17500.00	9

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## ARKANSAS RIVER AT TULSA, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL										
1965	78400.0	3	68000.0	3	52900.0	3	33400.0	3	25000.0	4	17700.0	4	13200.0	4	13500.0	4	11100.0	4	8440.0	4
1966	7550.0	10	6440.0	10	6150.0	10	5960.0	10	4670.0	10	3640.0	10	3260.0	10	3100.0	10	3050.0	10	2610.0	10
1967	26600.0	7	26300.0	7	23100.0	6	20900.0	6	16500.0	6	13400.0	6	10200.0	6	8270.0	6	5690.0	7	3420.0	7
1968	31900.0	6	27400.0	6	21800.0	7	14200.0	7	12300.0	7	9200.0	7	8230.0	7	7320.0	7	6670.0	6	4550.0	6
1969	40100.0	5	39500.0	5	35600.0	5	30500.0	5	26900.0	3	23300.0	3	19800.0	3	17300.0	3	13000.0	3	9080.0	3
1970	44600.0	4	44100.0	4	38800.0	4	30700.0	4	21800.0	5	14600.0	5	12200.0	5	10900.0	5	7820.0	5	5210.0	5
1971	13000.0	8	12900.0	8	10200.0	9	8630.0	8	6820.0	8	5110.0	9	4400.0	9	4370.0	9	3650.0	8	2980.0	8
1972	12300.0	9	12200.0	9	10900.0	8	8470.0	9	6550.0	9	5530.0	8	4890.0	8	4460.0	8	3520.0	9	2930.0	9
1973	82000.0	2	79300.0	2	74000.0	2	62400.0	2	55500.0	1	44000.0	1	37000.0	1	31000.0	1	23600.0	1	13600.0	2
1974	85600.0	1	84400.0	1	82800.0	1	74900.0	1	50100.0	2	31000.0	2	24600.0	2	20900.0	2	14800.0	2	15800.0	1

ARKANSAS RIVER BASIN

91

07165500 POLECAT CREEK BELOW HEYBURN LAKE, NEAR HEYBURN, OKLA.

LOCATION.--Lat 35°56'42", 96°17'39", in NW 1/4 NW 1/4 sec.19, T.17 N., R.10 E., Creek County, on right bank of outlet channel, 1,100 ft (335 m) downstream from Heyburn dam, 3.2 mi (5.1 km) upstream from bridge on U.S. Highway 66, 11 mi (17.7 km) southwest of Sapulpa, and at mile 48.4 (77.9 km).

DRAINAGE AREA.--123 mi<sup>2</sup> (319 km<sup>2</sup>).

PERIOD OF RECORD.--October 1943 to September 1974. Statistical summaries for this station are divided into unregulated and regulated periods.

AVERAGE DISCHARGE.--7 years (1944-50), 66.9 ft<sup>3</sup>/s (1.89 m<sup>3</sup>/s); 23 years (1951-74), 48.0 ft<sup>3</sup>/s (1.36 m<sup>3</sup>/s).

REMARKS.--Flow regulated since September 1950 by Heyburn Lake in Oklahoma with occasional prior regulation from March 1950 by lake construction operations.

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

POLECAT CREEK BELOW HEYBURN RES NEAR HEYBURN, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS	
1944	11	13	8	7	19	6	8	5	7	17	34	48	48	40	23	20	14	7	3	9	5	2	3	2	2			1	1	2	1			15415.9		
1945	33	7	18	2	15	10	10	46	35	15	17	12	19	18	17	13	11	13	11	12	4	3	6	3	2	1	5	2	2				3		32706.8	
1946	26	31	7	3	4	9	16	31	38	12	8	12	22	24	23	29	14	17	7	8	5	1	7	3	3	3			1			1		16312.2		
1947	42	18	20	3	13	1	18	33	59	20	17	21	11	6	13	8	10	9	7	5	6	1	3	5	5	1	3	5	1	1					23954.8	
1948	22	10	19	5	28	25	54	29	23	19	25	14	12	6	10	7	5	6	6	10	5	5	7	4	1	3	4						1		26215.6	
1949		3	6	4	19	29	28	34	33	16	12	15	32	20	13	16	12	8	13	10	4	9	6	5	6	4	4	1	2			1			32582.6	
1950		6	4	11	3	4	4	16	39	54	66	30	16	13	11	3	3	9	8	6	13	8	27	7	3		1								23928.9	

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	134	2557	100.0	9	2.30	138	1506	58.9	18	52.0	56	361	14.1	27	1200	10	27	1.0
1	0.10	82	2423	94.8	10	3.20	167	1368	53.5	19	73.0	62	305	11.9	28	1700	9	17	.6
2	0.20	84	2341	91.6	11	4.50	188	1201	47.0	20	100.0	35	243	9.5	29	2300	2	8	.3
3	0.30	28	2257	88.3	12	6.40	174	1013	39.6	21	150.0	34	208	8.1	30	3300	4	6	.2
4	0.40	109	2229	87.2	13	9.10	130	839	32.8	22	210.0	40	174	6.8	31	4700		2	.0
5	0.60	83	2120	82.9	14	13.00	112	709	27.7	23	290.0	49	134	5.2	32	6600		2	.0
6	0.80	138	2037	79.7	15	18.00	104	597	23.3	24	410.0	26	85	3.3	33	9400	2	2	.0
7	1.10	182	1899	74.3	16	26.00	69	493	19.3	25	580.0	15	59	2.3	34				
8	1.60	211	1717	67.1	17	36.00	63	424	16.6	26	830.0	17	44	1.7					

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

POLECAT CREEK BELOW HEYBURN RES NEAR HEYBURN, OKLAHOMA

YEAR	1		3		7		14		30		60		90		120		183		ANNUAL	
1945	0.00	1	0.00	1	0.04	4	0.06	4	0.30	5	1.10	4	4.87	5	5.77	4	7.43	2	46.30	2
1946	0.00	2	0.00	2	0.00	1	0.00	1	0.00	1	0.15	1	2.25	3	34.30	6	54.70	6	90.80	6
1947	0.00	3	0.00	3	0.00	2	0.00	2	0.01	2	1.97	5	2.58	4	4.97	3	19.00	4	27.90	1
1948	0.00	4	0.00	4	0.00	3	0.00	3	0.04	3	0.87	3	1.05	2	1.21	2	1.82	1	60.00	3
1949	0.10	5	0.10	5	0.16	5	0.20	5	0.21	4	0.68	2	0.73	1	0.93	1	8.01	3	83.70	4
1950	0.20	6	0.20	6	0.23	6	0.31	6	0.85	6	4.20	6	5.36	6	11.90	5	20.60	5	86.70	5

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

POLECAT CREEK BELOW HEYBURN RES NEAR HEYBURN, OKLAHOMA

YEAR	1		3		7		15		30		60		90		120		183		ANNUAL	
1944	2430.0	6	1200.0	6	555.0	6	300.0	7	180.0	7	134.0	6	104.0	6	86.9	6	62.4	7	42.1	7
1945	4520.0	3	2090.0	3	1290.0	3	633.0	3	388.0	3	293.0	4	203.0	4	175.0	3	128.0	3	89.6	1
1946	3510.0	4	1360.0	5	748.0	5	369.0	6	192.0	6	128.0	7	102.0	7	84.4	7	82.6	6	44.7	6
1947	3090.0	5	1250.0	4	797.0	4	506.0	4	377.0	4	312.0	3	222.0	3	169.0	4	112.0	4	65.6	5
1948	10300.0	1	4400.0	2	2140.0	2	1110.0	2	670.0	2	363.0	2	259.0	2	204.0	2	141.0	2	71.6	3
1949	9400.0	2	4350.0	2	2250.0	1	1160.0	1	677.0	1	378.0	1	263.0	1	213.0	1	167.0	1	89.3	2
1950	1480.0	7	542.0	7	381.0	7	373.0	5	339.0	5	176.0	5	172.0	5	135.0	5	111.0	5	65.6	4

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

POLECAT CREEK BELOW HEYBURN RESERVOIR NEAR HEYBURN, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34		
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS		
1951	66									34	55	22	8	11	9	7	13	15	14	20	22	13	10	10	9	5	5	5	5	6	1					5463.3	
1952	39									24	20	12	7	3	12	9	11	19	22	27	22	39	19	18	14	15	12	6	7	4	3	2				9451.8	
1953	197									17	6	6	9	2	6	5	1	7	5	7	8	16	13	8	8	8	8	9	6	2	4	4	2	1		11337.6	
1954	166									25	39	10	14	6	10	10	12	10	16	9	6	5	5	4	4	3	2	2	1	1	2	2		1		6062.7	
1955	309									4	5	1	8	3	2	4	2	3	1	3	4	2	3	1	2	2	1	1	1	1	1	1			2022.2		
1956	310									3	1	1	3		2	5	5	3	5	2	5	7	5	4	3	1	1									650.5	
1957	166									2	3	2	5		15	11	19	5	6	16	6	6	6	3	5	7	9	6	10	10	15	9	9	8		49572.2	
1958	32									13	8	5	5	8	9	13	14	17	16	24	17	25	28	24	11	17	14	11	12	14	8	7	3	4	6	34465.3	
1959	42									19	14	4	9	5	21	13	12	17	20	28	21	26	29	13	10	9	6	12	10	14	4	3	1	3		18645.9	
1960	23									3	3	1	3		5	1	2	3	5	28	19	26	23	53	43	25	21	25	13	9	7	8	6	3	8	42323.5	
1961	97									8	4	5	4	2	16	17	8	21	13	11	13	13	14	19	14	16	12	18	12	9	8	8	1	2		20832.4	
1962	22									2	1	1	4		6	6	4	5	6	14	30	23	61	48	29	23	20	18	12	10	9	4	1	2	4	28907.8	
1963	72									3	3	5	6		15	34	21	37	38	40	18	21	21	14	6	2	3	2		1	2	1			4502.8		
1964	65									21	82	7	22	8	13	19	3	31	6	10	3	10	13	13	10	5	6	4	2	2	2	1	1	3		12903.4	
1965	47									2	5	2	12		47	24	17	22	19	33	30	22	21	18	11	11	5	6	4	4		2	1		7651.9		
1966	111									23	8	8	9	5	41	54	19	16	10	11	3	5	6	10	5	6	4	2	1	3	1	3	1			5585.7	
1967	242									17	2			3	2	4	4		7	3	8	8	13	11	4	4	5	2	4	4	3					6808.3	
1968	128									19	10	6	6	4	7	7	7	8	11	14	4	12	17	23	12	13	13	8	7	6	1	1				8291.5	
1969	79									5	5	2	1	10	3	4	4	5	3	2	11	26	25	38	29	20	22	16	13	14	7	6	4	1	1	13223.4	
1970	173									1	3	2	1	15	4	6	10	8	10	10	7	7	10	12	12	8	17	10	6	8	3	5	3	5	1	4	8645.9
1971	106									8	5	7	3	7	8	13	6	15	12	28	10	25	14	19	10	8	8	9	6	4	5	1	2	4	2	18269.8	
1972	106									1	1	3	3	1	3	8	7	17	24	40	30	22	23	10	15	9	9	4	3	4	2	2	4	1		16718.5	
1973	42									3	1	2	2	2	2	2	6	6	14	20	19	30	29	26	34	27	15	15	12	10	15	8	10	6	7	47761.1	
1974	17									2	3	1	2	2	4	10	4	5	14	15	14	52	36	41	31	27	24	16	11	6	4	8	3	4	8	39951.0	

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	2657	8766	100.0	9	0.30	121	5464	62.3	18	7.7	344	3296	37.6	27	210	134	462	5.2
1	0.01	8	6109	69.7	10	0.40	161	5343	61.0	19	11.0	454	2952	33.7	28	310	98	328	3.7
2	0.02	2	6101	69.6	11	0.60	83	5182	59.1	20	16.0	450	2498	28.5	29	450	89	230	2.6
3	0.03	13	6099	69.6	12	0.80	272	5099	58.2	21	23.0	425	2048	23.4	30	650	48	141	1.6
4	0.04	29	6086	69.4	13	1.20	289	4827	55.1	22	34.0	323	1623	18.5	31	940	42	93	1.0
5	0.06	21	6057	69.1	14	1.80	202	4538	51.8	23	49.0	265	1300	14.8	32	1400	51	51	.5
6	0.09	8	6036	68.9	15	2.50	297	4336	49.5	24	71.0	216	1035	11.8	33	2000			
7	0.10	278	6028	68.8	16	3.70	298	4039	46.1	25	100.0	211	819	9.3	34				
8	0.20	286	5750	65.6	17	5.30	445	3741	42.7	26	150.0	146	608	6.9					



## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## POLECAT CREEK BELOW HEYBURN RESEVOIR NEAR HEYBURN, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1952	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	1.34 19	3.65 19	7.07 19	7.07 14	25.30 9
1953	0.00 2	0.00 2	0.00 2	0.00 2	0.00 2	0.01 9	0.01 7	0.02 5	0.67 5	18.20 8
1954	0.00 3	0.00 3	0.00 3	0.00 3	0.03 14	0.49 16	0.75 14	0.89 13	0.91 6	26.20 10
1955	0.00 4	0.00 4	0.00 4	0.00 4	0.00 3	0.00 1	0.00 1	0.00 1	0.01 3	16.10 7
1956	0.00 5	0.00 5	0.00 5	0.00 5	0.00 4	0.00 2	0.00 2	0.00 2	0.00 1	5.50 2
1957	0.00 6	0.00 6	0.00 6	0.00 6	0.00 5	0.00 3	0.00 3	0.00 3	0.96 7	2.23 1
1958	0.00 7	0.00 7	0.00 7	0.00 7	0.47 20	1.21 18	1.86 15	2.27 14	5.23 12	150.00 23
1959	0.00 8	0.00 8	0.00 8	0.06 21	0.23 17	0.31 15	0.40 12	0.64 11	3.98 10	82.10 20
1960	0.00 9	0.00 9	0.00 9	0.16 22	5.23 22	25.90 23	41.60 23	49.70 23	98.00 23	106.00 21
1961	0.00 10	0.00 10	0.00 10	0.00 8	0.00 6	0.00 4	0.00 4	0.79 12	2.55 9	62.80 16
1962	0.00 11	0.00 11	0.00 11	0.00 9	0.32 18	15.00 22	20.20 22	32.70 22	31.80 20	73.60 18
1963	0.00 12	0.00 12	0.00 12	0.00 10	2.16 21	3.06 20	3.95 20	4.38 18	5.94 13	61.20 15
1964	0.00 13	0.00 13	0.00 13	0.00 11	0.00 7	0.15 13	0.18 10	0.22 9	1.15 8	9.94 3
1965	0.00 14	0.00 14	0.00 14	0.00 12	0.00 8	0.00 5	3.53 18	11.60 20	10.90 18	46.30 14
1966	0.00 15	0.00 15	0.00 15	0.00 13	0.40 19	1.02 17	2.25 16	3.85 15	4.22 11	11.50 4
1967	0.00 16	0.00 16	0.00 16	0.00 14	0.00 9	0.00 6	0.00 5	0.00 4	0.00 2	13.20 5
1968	0.00 17	0.00 17	0.00 17	0.00 15	0.00 10	0.00 7	0.04 8	0.11 7	0.18 4	29.30 11
1969	0.00 18	0.00 18	0.00 18	0.00 16	0.01 13	0.01 8	0.01 6	0.03 6	7.24 15	36.30 13
1970	0.00 19	0.00 19	0.00 19	0.00 17	0.00 11	0.13 12	0.26 11	0.26 10	8.27 16	16.10 6
1971	0.00 20	0.00 20	0.00 20	0.00 18	0.06 15	0.23 14	0.46 13	3.87 16	24.70 19	32.40 12
1972	0.00 21	0.00 21	0.00 21	0.00 19	0.08 16	0.09 11	3.41 17	4.26 17	74.00 22	75.00 19
1973	0.00 22	0.00 22	0.00 22	0.00 20	0.00 12	0.06 10	0.16 9	0.17 8	8.75 17	65.10 17
1974	0.00 23	0.00 23	0.00 23	0.71 23	5.93 23	9.72 21	14.50 21	21.90 21	42.80 21	110.00 22

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## POLECAT CREEK BELOW HEYBURN RESEVOIR NEAR HEYBURN, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1951	333.0 23	250.0 23	180.0 23	136.0 22	10.8 21	51.0 21	46.6 20	40.3 19	28.9 21	15.0 21
1952	490.0 21	392.0 22	241.0 22	166.0 19	112.0 18	86.5 16	73.9 15	63.0 14	44.9 15	25.8 14
1953	976.0 14	695.0 14	413.0 14	240.0 13	207.0 12	153.0 12	123.0 11	93.0 11	61.5 12	31.1 13
1954	1460.0 11	1000.0 12	682.0 11	344.0 12	189.0 13	97.8 15	65.4 16	49.4 17	32.6 19	16.6 19
1955	611.0 19	419.0 20	243.0 21	127.0 23	65.8 23	32.9 23	22.2 23	16.8 23	11.0 23	5.5 23
1956	82.0 24	61.7 24	44.0 24	24.1 24	12.1 24	6.9 24	4.7 24	4.7 24	3.6 24	1.8 24
1957	1860.0 3	1790.0 3	1600.0 2	1170.0 1	855.0 1	661.0 1	534.0 1	407.0 1	270.0 1	136.0 1
1958	1710.0 7	1610.0 6	1230.0 5	928.0 4	635.0 2	365.0 3	266.0 3	218.0 4	183.0 3	94.4 5
1959	1610.0 10	1550.0 8	950.0 9	539.0 8	345.0 7	184.0 10	166.0 8	138.0 8	98.0 8	51.1 8
1960	1740.0 6	1680.0 4	1380.0 4	747.0 5	424.0 5	274.0 5	204.0 5	174.0 5	140.0 5	116.0 3
1961	1280.0 12	1020.0 11	556.0 12	348.0 11	250.0 11	203.0 7	174.0 6	144.0 7	106.0 7	57.1 7
1962	1630.0 9	1610.0 7	1200.0 6	637.0 7	343.0 8	203.0 8	171.0 7	152.0 6	126.0 6	79.2 6
1963	774.0 17	524.0 18	299.0 18	149.0 20	76.1 22	41.4 22	35.8 22	28.4 22	21.6 22	12.3 22
1964	1790.0 4	1680.0 5	1040.0 7	525.0 9	273.0 10	182.0 11	122.0 12	91.5 12	69.3 11	35.3 12
1965	725.0 18	577.0 17	360.0 15	187.0 17	98.4 20	52.4 20	43.6 21	34.6 21	32.9 18	21.0 17
1966	871.0 16	620.0 16	346.0 17	185.0 18	149.0 14	80.1 17	53.6 18	42.4 18	29.9 20	15.3 20
1967	602.0 20	498.0 19	282.0 19	220.0 16	142.0 15	104.0 13	75.6 14	56.7 16	37.2 17	18.7 18
1968	475.0 22	393.0 21	263.0 20	143.0 21	99.8 19	74.3 19	65.3 17	61.3 15	45.1 14	22.7 16
1969	1160.0 13	778.0 13	460.0 13	236.0 14	130.0 17	103.0 14	76.8 13	65.2 13	59.2 13	36.2 11
1970	922.0 15	634.0 15	351.0 16	220.0 15	135.0 16	75.4 18	52.9 19	39.9 20	38.9 16	23.7 15
1971	1760.0 5	1500.0 9	1010.0 8	661.0 6	419.0 6	217.0 6	147.0 9	113.0 9	74.0 10	50.1 9
1972	1650.0 8	1320.0 10	801.0 10	525.0 10	284.0 9	190.0 9	145.0 10	112.0 10	76.0 9	45.7 10
1973	1910.0 2	1870.0 2	1430.0 3	1030.0 3	609.0 4	521.0 2	386.0 2	316.0 2	230.0 2	131.0 2
1974	1970.0 1	1970.0 1	1870.0 1	1120.0 2	611.0 3	357.0 4	246.0 4	228.0 3	165.0 4	109.0 4



## ARKANSAS RIVER BASIN

07165550 SNAKE CREEK NEAR BIXBY, OKLA.

LOCATION.--Lat 35°49'08", long 95°53'18", in NW 1/4 SW 1/4 sec.36, T.16 N., R.13 E., Okmulgee County, on right bank 5.5 mi (8.8 km) upstream from Duck Creek, 8.8 mi (14.2 km) south of Bixby, and at mile 11.0 (17.7 km).

DRAINAGE AREA.--50.0 mi<sup>2</sup> (130 km<sup>2</sup>).

PERIOD OF RECORD.--July 1961 to September 1970.

AVERAGE DISCHARGE.--9 years (1962-70), 19.1 ft<sup>3</sup>/s (0.541 m<sup>3</sup>/s).

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

## SNAKE CREEK NEAR BIXBY, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS	
1962	23									13	11	9	14	19	13	9	10	17	34	34	32	45	24	13	17	8	4	7	1	3	2	1	1	1		9330.3
1963	80									19	6	3	4	11	11	22	27	30	47	25	20	23	12	4	4	4	3	1		1	1			5066.2		
1964	236									22	10	4	12	6	6	12	9	7	7	7	5	9	1	4		2	2	2	2			1		2914.1		
1965	101									16	13	15	12	13	9	13	15	11	23	30	18	16	13	14	7	8	7	2	4	2		1	2		7130.8	
1966	261									29	7	3	5	8	8	9	6	3	6	3		7	4	1	4	1									566.1	
1967	254	1		2		6				10	8	8	4	6	4	4	5	7	5	7	8	11	2	3	1	2	2	1	1		1	1		1	5538.5	
1968	61	4	1	7	5	2	2			21	33	22	10	9	7	5	7	6	16	22	24	29	14	17	7	5	5	4	6	3	7	3	1	1	12609.0	
1969	105	5	2	3	4	4				11	4	1	5	6	8	4	4	18	14	17	26	35	31	14	14	8	5	6		4	2	1	1	1	2	12782.4
1970	151	13	6	1	3	3				10	10	5	14	11	17	16	17	11	14	11	7	9	7	8	6	2	2	3	1	2	4			1	6770.6	

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	1272	3287	100.0	9	0.30	70	1688	51.4	18	8.3	140	740	22.5	27	240	17	55	1.6					
1	0.01	23	2015	61.3	10	0.40	80	1618	49.2	19	12.0	184	600	18.3	28	350	16	38	1.1					
2	0.02	4	1992	60.6	11	0.60	89	1538	46.8	20	18.0	108	416	12.7	29	510	8	22	.6					
3	0.03	13	1983	60.3	12	0.90	83	1449	44.1	21	26.0	78	308	9.4	30	740	6	14	.4					
4	0.04	12	1970	59.9	13	1.30	94	1366	41.6	22	37.0	60	230	7.0	31	1100	4	8	.2					
5	0.06	15	1958	59.6	14	1.90	100	1272	38.7	23	54.0	40	170	5.2	32	1600	3	4	.1					
6	0.09	2	1943	59.1	15	2.70	110	1172	35.7	24	79.0	30	130	4.0	33	2300	1	1	.0					
7	0.10	151	1941	59.1	16	3.90	166	1062	32.3	25	110.0	27	100	3.0	34									
8	0.20	102	1790	54.5	17	5.70	156	896	27.3	26	170.0	18	73	2.2										

## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## SNAKE CREEK NEAR BIXBY, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1963	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.13 8	4.93 8	8.19 8	10.70 8	10.90 8
1964	0.00 2	0.00 2	0.00 2	0.00 2	0.00 2	0.00 1	0.00 1	0.00 1	0.00 1	22.80 6
1965	0.00 3	0.00 3	0.00 3	0.00 3	0.00 3	0.00 2	0.09 6	0.44 7	0.33 4	8.16 2
										14.80 5
1966	0.00 4	0.00 4	0.00 4	0.00 4	0.00 4	0.00 3	0.00 2	0.00 2	0.06 3	0.35 3
1967	0.00 5	0.00 5	0.00 5	0.00 5	0.00 5	0.00 4	0.00 3	0.00 3	0.00 2	13.50 4
1968	0.00 6	0.00 6	0.00 6	0.00 6	0.00 6	0.00 5	0.01 5	0.04 5	0.67 7	0.74 1
1969	0.00 7	0.00 7	0.00 7	0.00 7	0.00 7	0.00 6	0.31 7	0.23 6	0.52 6	33.50 7
1970	0.00 8	0.00 8	0.00 8	0.00 8	0.00 8	0.00 7	0.00 4	0.00 4	0.45 5	42.80 8
										2.54 5
										10.50 3

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## SNAKE CREEK NEAR BIXBY, OKLAHOMA

YEAR	1		3		7		15		30		60		90		120		183		ANNUAL	
1962	1110.0	6	541.0	6	265.0	7	150.0	7	85.0	6	44.3	7	45.3	6	42.0	6	37.2	3	25.6	3
1963	848.0	8	599.0	5	290.0	5	159.0	6	81.9	7	50.9	6	39.4	7	30.2	7	25.1	7	13.9	7
1964	1160.0	5	449.0	8	203.0	8	96.9	8	50.6	8	30.9	8	31.3	8	23.9	8	15.8	8	8.0	8
1965	866.0	7	482.0	7	290.0	6	228.0	2	122.0	4	70.0	5	51.7	5	45.6	5	35.1	4	19.5	4
1966	71.0	9	42.3	9	22.8	9	15.4	9	8.4	9	6.4	9	5.4	9	4.2	9	3.1	9	1.6	9
1967	3300.0	1	1170.0	1	520.0	1	292.0	1	175.0	1	89.8	4	61.1	4	46.0	4	30.2	6	15.2	6
1968	1500.0	4	654.0	4	349.0	4	191.0	5	145.0	3	117.0	2	108.0	1	88.4	1	67.9	1	34.5	2
1969	1960.0	3	984.0	2	453.0	2	222.0	3	161.0	2	142.0	1	108.0	2	87.7	2	67.7	2	35.0	1
1970	2290.0	2	929.0	3	416.0	3	209.0	4	108.0	5	95.2	3	67.4	3	51.1	3	33.9	5	18.5	5

## 95

LOCATION.--Lat 37°13'26", long 95°40'43", in NW 1/4 NE 1/4 NE 1/4 sec.32, T.32 S., R.16 E., Montgomery County, near right bank at downstream side of bridge on U.S. Highway 160, 1.0 mi (1.6 km) east of Independence, 3.6 mi (5.8 km) downstream from Elk River, and at mile 194.3 (312.6 km).

PERIOD OF RECORD.--October 1895 to September 1904, October 1921 to September 1974. Statistical summaries for this station are divided into unregulated and regulated periods.

REMARKS.--Flow regulated since 1949 by Fall River Lake (Kansas) and since 1960 by Toronto Lake (Kansas). Since 1966, some regulation by Elk City Lake (Kansas).

## VERDIGRIS RIVER AT INDEPENDENCE, KANSAS

[illegible]

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## VERDIGRIS RIVER AT INDEPENDENCE, KANSAS

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1897	5.00 18	5.00 16	5.00 15	9.21 15	13.80 13	44.80 17	77.10 17	263.00 24	496.00 20	1300.00 16
1898	2.00 10	2.00 9	2.00 8	2.00 8	2.00 7	3.53 5	7.20 2	9.63 2	16.70 2	605.00 6
1899	2.00 11	2.00 10	3.43 13	7.29 14	25.50 22	54.00 22	111.00 20	193.00 19	427.00 19	1190.00 15
1900	10.00 22	10.00 20	11.00 18	14.00 20	16.50 15	26.90 11	32.50 8	37.80 6	47.40 5	1100.00 13
1901	7.00 19	9.00 19	11.70 20	15.00 22	19.40 17	93.70 26	599.00 30	691.00 29	1640.00 29	1650.00 19
1902	2.00 12	2.00 11	2.29 10	2.57 10	6.77 12	17.50 7	44.50 10	43.40 7	55.90 7	404.00 3
1903	100.00 33	117.00 33	153.00 33	207.00 32	263.00 32	792.00 34	1160.00 33	1240.00 32	1640.00 30	2570.00 27
1923	10.00 23	10.30 21	11.10 19	12.40 18	19.10 16	38.20 14	39.10 9	56.00 9	59.40 8	2000.00 22
1924	10.00 24	12.30 24	14.10 23	14.50 21	29.60 23	68.30 25	197.00 24	600.00 28	797.00 22	1840.00 21
1925	49.00 31	58.00 31	66.00 31	107.00 31	232.00 31	436.00 32	691.00 31	718.00 30	857.00 24	1180.00 14
1926	2.00 13	8.33 18	16.70 24	18.40 24	30.30 24	44.90 18	51.70 13	139.00 16	314.00 17	607.00 9
1927	0.10 6	0.17 6	0.21 6	0.59 6	5.65 11	40.70 15	138.00 21	270.00 25	1300.00 27	1680.00 20
1928	122.00 34	166.00 34	225.00 34	281.00 34	325.00 33	330.00 31	480.00 29	505.00 26	1980.00 32	3850.00 34
1929	22.00 29	23.70 29	40.10 30	57.50 30	79.10 29	108.00 27	140.00 22	205.00 20	1760.00 31	2300.00 25
1930	19.00 27	20.00 27	20.00 25	22.90 26	39.00 25	46.50 19	71.90 16	74.90 12	92.70 10	2050.00 24
1931	3.00 16	3.00 14	3.71 14	6.71 13	19.90 18	34.00 13	266.00 26	251.00 23	334.00 18	893.00 12
1932	2.00 14	2.00 12	2.14 9	2.43 9	5.33 10	52.60 21	45.10 11	77.60 13	831.00 23	1320.00 17
1933	0.00 1	0.00 1	0.10 5	0.10 4	1.43 5	2.85 4	13.20 4	11.20 3	21.70 3	399.00 2
1934	0.50 7	0.50 7	0.50 7	0.64 7	1.70 6	41.20 16	51.40 12	180.00 17	149.00 13	426.00 4
1935	0.00 2	0.00 2	0.00 1	0.29 5	0.93 4	1.93 3	22.00 7	80.90 15	162.00 15	549.00 7
1936	5.00 17	5.67 17	8.00 16	11.50 17	49.40 26	56.10 23	81.90 19	184.00 16	904.00 25	2640.00 28
1937	0.00 3	0.00 3	0.00 2	0.00 1	0.03 2	0.53 2	13.80 5	73.80 11	156.00 14	521.00 6
1938	2.00 15	2.00 13	2.57 11	2.93 11	3.63 8	6.63 6	11.00 3	13.20 4	50.70 6	892.00 11
1939	9.00 20	11.00 23	12.10 21	13.20 19	14.90 14	17.90 8	17.80 6	16.70 5	23.50 4	1500.00 18
1940	0.00 4	0.00 4	0.00 3	0.00 2	0.00 1	0.00 1	0.00 1	0.00 1	0.01 1	203.00 1
1941	0.00 5	0.00 5	0.00 4	0.07 3	0.50 3	20.90 9	219.00 25	225.00 22	228.00 16	793.00 10
1942	29.00 30	29.70 30	33.90 29	46.00 29	64.60 28	268.00 30	1190.00 34	1280.00 33	2680.00 34	2630.00 30
1943	76.00 32	83.00 32	109.00 32	222.00 33	385.00 34	627.00 33	1100.00 32	1450.00 34	1480.00 28	2430.00 26
1944	10.00 21	10.30 22	13.90 22	15.40 23	21.10 19	56.80 24	69.80 15	78.50 14	89.50 9	2730.00 29
1945	18.00 25	18.30 25	21.30 27	26.60 27	115.00 30	253.00 29	345.00 27	512.00 27	941.00 26	2930.00 32
1946	21.00 28	23.30 28	24.90 28	30.60 28	49.40 27	138.00 28	375.00 28	888.00 31	2210.00 33	3220.00 33
1947	1.00 8	1.33 8	2.57 12	3.57 12	4.17 9	26.40 10	56.30 14	50.00 8	128.00 12	459.00 5
1948	2.00 9	3.33 15	9.00 17	10.20 16	22.70 20	28.80 12	78.00 18	72.50 10	97.70 11	2040.00 23
1949	19.00 26	19.70 26	20.10 26	20.40 25	24.20 21	47.70 20	179.00 23	219.00 21	762.00 21	2680.00 31

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## VERDIGRIS RIVER AT INDEPENDENCE, KANSAS

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1896	28000.0 20	21600.0 22	13200.0 22	8710.0 19	5550.0 20	3310.0 21	2930.0 18	2240.0 19	2000.0 19	1220.0 19
1897	26100.0 21	16600.0 25	8530.0 27	4920.0 27	3100.0 29	2610.0 26	2280.0 25	2050.0 23	1630.0 24	976.0 24
1898	30700.0 18	27600.0 17	18300.0 15	9700.0 18	6350.0 16	4370.0 17	3210.0 17	2770.0 17	2070.0 17	1090.0 22
1899	29900.0 19	22900.0 20	14400.0 20	7740.0 21	5920.0 17	4430.0 16	3440.0 16	2850.0 16	2130.0 16	1240.0 17
1900	37000.0 12	31200.0 14	15600.0 19	7410.0 22	3710.0 27	2050.0 28	1850.0 27	1690.0 27	1640.0 23	957.0 25
1901	35100.0 14	24000.0 18	14000.0 21	7280.0 23	4170.0 23	3540.0 19	2540.0 19	2020.0 24	1710.0 22	1170.0 21
1902	33000.0 16	31700.0 12	22800.0 13	15300.0 13	11500.0 12	6810.0 11	4840.0 11	4070.0 11	3090.0 12	2610.0 13
1903	41500.0 11	37300.0 11	25700.0 11	21300.0 7	13900.0 8	7840.0 10	6740.0 8	5920.0 7	4450.0 6	2890.0 6
1923	35600.0 13	31600.0 13	25100.0 12	19100.0 10	12100.0 11	6430.0 13	4420.0 13	3380.0 14	2270.0 15	1180.0 20
1924	13800.0 30	10300.0 30	6380.0 29	5540.0 26	3260.0 28	2660.0 25	2420.0 22	2080.0 21	1790.0 21	1460.0 15
1925	13500.0 32	10100.0 32	4980.0 32	2590.0 33	1890.0 32	1420.0 31	1200.0 30	1160.0 29	1040.0 29	740.0 29
1926	17600.0 27	14800.0 26	9650.0 25	7240.0 24	3980.0 25	2030.0 29	1360.0 29	1160.0 30	1310.0 28	947.0 26
1927	61800.0 5	44000.0 5	35500.0 4	30800.0 1	19300.0 1	10600.0 4	8870.0 1	7020.0 1	5560.0 1	3730.0 1
1928	85100.0 3	63700.0 3	35400.0 5	17100.0 11	9510.0 13	5110.0 15	4010.0 14	3620.0 13	2700.0 14	2220.0 9
1929	57600.0 6	40400.0 9	27300.0 10	15900.0 12	14300.0 7	9880.0 6	7310.0 6	5960.0 6	5040.0 3	3190.0 3
1930	20200.0 26	14600.0 27	11800.0 23	8690.0 20	4980.0 21	3550.0 18	2410.0 23	1820.0 26	1340.0 27	733.0 28
1931	17300.0 28	11400.0 28	7850.0 28	4780.0 28	3750.0 28	2830.0 24	2430.0 21	1990.0 25	1420.0 26	841.0 27
1932	26000.0 22	23400.0 19	16100.0 18	10100.0 17	5590.0 16	3210.0 22	2410.0 24	2060.0 22	1540.0 25	1060.0 23
1933	17300.0 29	10300.0 31	5170.0 31	3210.0 31	2300.0 30	1450.0 30	1010.0 31	770.0 32	706.0 31	375.0 31
1934	13300.0 33	11100.0 29	5510.0 30	3240.0 30	1810.0 33	1400.0 32	1000.0 32	782.0 31	621.0 33	342.0 32
1935	62200.0 4	48500.0 4	34100.0 6	22400.0 4	19000.0 2	12600.0 2	6650.0 3	6570.0 3	4510.0 5	2450.0 7
1936	21600.0 25	17400.0 24	8690.0 26	4780.0 29	4020.0 24	2430.0 27	1800.0 28	1390.0 28	949.0 30	550.0 30
1937	23200.0 24	19200.0 23	10400.0 24	7190.0 25	4810.0 22	3370.0 20	2530.0 20	2310.0 18	1830.0 20	1220.0 18
1938	31600.0 17	30300.0 15	28600.0 8	20800.0 8	13700.0 9	7850.0 9	6010.0 10	4630.0 10	3150.0 11	1590.0 14
1939	7780.0 34	6040.0 34	3940.0 34	2060.0 34	1540.0 34	897.0 34	801.0 34	628.0 34	420.0 34	218.0 34
1940	13600.0 31	9480.0 33	4490.0 33	2830.0 32	1910.0 31	1290.0 33	922.0 33	735.0 33	623.0 32	313.0 33
1941	33400.0 15	28400.0 16	18000.0 16	12300.0 14	6420.0 15	5600.0 14	4000.0 15	3090.0 15	2750.0 13	1820.0 12
1942	25700.0 23	21900.0 21	16800.0 17	11800.0 15	8620.0 14	6460.0 12	4720.0 12	3710.0 12	3370.0 10	3180.0 4
1943	106000.0 1	86300.0 1	51100.0 1	29100.0 2	18900.0 3	13000.0 1	8800.0 2	6790.0 2	5070.0 2	2950.0 5
1944	48500.0 7	43500.0 6	27300.0 9	19700.0 9	16600.0 4	11300.0 3	7980.0 4	6170.0 5	4190.0 7	2240.0 8
1945	94800.0 2	64800.0 2	37200.0 3	22000.0 5	15000.0 6	10500.0 5	7470.0 5	6480.0 4	4520.0 4	3400.0 2
1946	44800.0 10	39900.0 10	21300.0 14	10600.0 16	5570.0 19	2910.0 23	2230.0 26	2160.0 20	2060.0 18	1240.0 16
1947	47300.0 9	42800.0 7	32300.0 7	21500.0 6	13600.0 10	9370.0 8	7100.0 7	5830.0 8	3890.0 9	2050.0 10
1948	48000.0 8	41900.0 8	37500.0 2	25700.0 3	15100.0 5	9560.0 7	6540.0 9	5250.0 9	3900.0 6	2000.0 11

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

VERDIGRIS RIVER AT INDEPENDENCE, KANSAS

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS
1950																																			452937.0
1951																																			1498459.0
1952																																			451964.0
1953																																			23958.7
1954																																			118466.4
1955																																			85595.9
1956																																			30316.5
1957																																			638666.6
1958																																			714610.0
1959																																			453818.0
1960																																			753433.0
1961																																			1456748.0
1962																																			956390.0
1963																																			204645.0
1964																																			50651.3
1965																																			765573.0
1966																																			80408.0
1967																																			249622.0
1968																																			494055.0
1969																																			1192135.0
1970																																			827341.0
1971																																			332149.0
1972																																			399712.0
1973																																			1364706.0
1974																																			1480496.0

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	10	9131	100.0	9	3.80	132	8942	97.9	18	160.0	654	5177	56.7	27	6500	318	704	7.7
1	0.10	12	9121	99.9	10	5.80	213	8810	96.5	19	240.0	662	4523	49.5	28	9800	238	386	4.2
2	0.20	14	9109	99.8	11	8.80	280	8597	94.2	20	360.0	657	3861	42.3	29	15000	96	148	1.6
3	0.30	9	9095	99.6	12	13.00	418	8317	91.1	21	550.0	524	3204	35.1	30	22000	37	52	.5
4	0.50	16	9086	99.5	13	20.00	551	7899	86.5	22	820.0	477	2680	29.4	31	34000	7	15	.1
5	0.70	18	9070	99.3	14	30.00	506	7348	80.5	23	1200.0	445	2203	24.1	32	51000	7	8	.0
6	1.10	16	9052	99.1	15	46.00	586	6842	74.9	24	1900.0	320	1758	19.3	33	78000	1	1	.0
7	1.70	31	9036	99.0	16	69.00	446	6256	68.5	25	2800.0	352	1438	15.7	34				
8	2.50	63	9005	98.6	17	100.00	633	5810	63.6	26	4300.0	382	1086	11.9					

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## VERDIGRIS RIVER AT INDEPENDENCE, KANSAS

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1950	34.00 18	35.30 18	43.60 21	62.00 21	80.00 21	122.00 16	167.00 12	158.00 11	231.00 10	1120.00 11
1951	38.00 21	38.30 21	40.00 19	47.60 19	51.60 16	58.50 10	59.90 9	62.40 9	168.00 8	1210.00 13
1952	170.00 25	240.00 25	268.00 25	356.00 25	612.00 25	836.00 24	806.00 23	1240.00 23	1670.00 22	4870.00 24
1953	3.10 5	3.63 5	5.53 5	6.08 5	7.23 4	9.30 4	11.40 4	13.90 3	13.60 2	389.00 7
1954	0.00 1	0.07 2	0.19 2	1.80 3	8.85 5	12.80 5	20.60 6	25.40 5	29.30 4	68.50 2
1955	0.00 2	0.00 1	0.04 1	0.15 1	1.52 1	6.99 2	10.50 3	32.80 7	52.40 6	350.00 6
1956	0.60 4	0.60 4	2.00 4	3.95 4	6.06 3	7.62 3	8.01 2	7.92 2	75.00 7	231.00 5
1957	0.20 3	0.20 3	0.20 3	0.63 2	3.59 2	6.31 1	6.06 1	7.62 1	8.21 1	50.10 1
1958	6.00 6	8.13 6	11.10 7	13.20 6	24.30 9	82.10 13	102.00 10	166.00 12	241.00 11	2630.00 20
1959	29.00 16	30.00 15	32.90 15	35.80 14	42.80 12	170.00 18	216.00 14	208.00 13	258.00 13	1210.00 14
1960	48.00 23	52.00 23	59.10 22	75.10 23	270.00 23	383.00 22	575.00 22	921.00 21	1970.00 23	2470.00 19
1961	21.00 13	23.00 13	28.90 14	33.40 13	49.80 14	183.00 19	377.00 20	379.00 15	723.00 15	1350.00 15
1962	93.00 24	98.30 24	107.00 24	176.00 24	299.00 24	1480.00 25	1490.00 25	2460.00 25	4130.00 25	5390.00 25
1963	20.00 12	20.30 12	21.70 12	32.20 12	51.40 15	88.40 14	309.00 17	583.00 20	999.00 17	1060.00 10
1964	13.00 9	14.00 9	14.00 8	14.80 8	17.50 7	18.00 6	18.80 5	19.50 4	22.20 3	98.00 3
1965	8.40 7	8.90 7	10.90 6	13.30 7	16.40 6	34.50 8	57.30 8	50.60 8	245.00 12	785.00 8
1966	26.00 15	26.00 14	26.40 13	30.10 11	39.80 10	48.80 9	103.00 11	106.00 10	223.00 9	1550.00 16
1967	14.00 10	14.00 8	14.10 9	14.90 9	20.50 8	23.90 7	25.70 7	26.10 6	30.00 5	126.00 4
1968	13.00 8	14.30 10	19.00 10	38.20 15	63.00 19	69.70 12	360.00 18	407.00 17	1030.00 19	1180.00 12
1969	25.00 14	35.70 19	38.10 18	51.70 20	86.20 22	496.00 23	1050.00 24	1250.00 24	1530.00 21	2040.00 17
1970	44.00 22	47.30 22	60.00 23	69.80 22	78.70 20	118.00 15	366.00 19	529.00 18	1250.00 20	2700.00 21
1971	34.00 19	34.30 17	35.40 16	39.50 16	41.10 11	64.50 11	256.00 15	332.00 14	272.00 14	2090.00 18
1972	18.00 11	18.00 11	19.10 11	27.10 10	44.00 13	202.00 20	437.00 21	562.00 19	813.00 16	997.00 9
1973	36.00 20	38.30 20	41.70 20	44.90 18	60.00 18	146.00 17	265.00 16	1150.00 22	1010.00 18	3060.00 22
1974	32.00 17	32.30 16	36.70 17	44.60 17	59.90 17	209.00 21	192.00 13	389.00 16	2240.00 24	3940.00 23

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## VERDIGRIS RIVER AT INDEPENDENCE, KANSAS

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1950	28400.0 7	21400.0 11	13100.0 13	8930.0 13	7300.0 13	4720.0 10	3720.0 11	3230.0 11	2240.0 12	1240.0 13
1951	89200.0 1	68600.0 1	47200.0 1	38600.0 1	28000.0 1	16800.0 1	12900.0 1	10800.0 1	8020.0 1	4110.0 1
1952	21000.0 14	16500.0 15	10300.0 15	7140.0 14	4830.0 14	4170.0 13	3020.0 14	2530.0 14	2200.0 14	1230.0 15
1953	1680.0 25	1150.0 25	782.0 25	592.0 25	332.0 25	218.0 25	171.0 25	137.0 24	110.0 24	65.6 25
1954	27800.0 9	21500.0 10	12900.0 14	6630.0 16	3440.0 18	1850.0 19	1240.0 19	939.0 20	623.0 20	325.0 20
1955	16200.0 17	12600.0 16	6530.0 20	3290.0 20	1780.0 21	1110.0 20	750.0 21	588.0 21	406.0 21	235.0 21
1956	4880.0 22	3140.0 22	1590.0 23	822.0 24	417.0 24	237.0 24	175.0 24	133.0 25	90.8 25	82.8 24
1957	26800.0 10	23100.0 8	19100.0 5	15500.0 4	14300.0 4	9810.0 3	6910.0 5	5260.0 6	3480.0 7	1750.0 11
1958	26000.0 11	22200.0 9	15100.0 12	13300.0 10	10900.0 7	6660.0 8	4860.0 10	3880.0 10	3460.0 8	1960.0 10
1959	28000.0 8	27800.0 5	23000.0 3	14400.0 7	7670.0 12	4340.0 12	3540.0 12	3030.0 12	2240.0 13	1240.0 14
1960	28900.0 6	26200.0 6	20400.0 4	16200.0 3	8770.0 10	4640.0 11	3250.0 13	2880.0 13	2740.0 11	2060.0 9
1961	77300.0 2	68300.0 2	42800.0 2	27300.0 2	20100.0 2	12400.0 2	9530.0 2	7650.0 3	6680.0 2	3990.0 3
1962	32400.0 5	25600.0 7	18700.0 6	12500.0 11	9960.0 9	7280.0 6	6020.0 7	5020.0 7	4070.0 6	2620.0 6
1963	12900.0 21	8200.0 21	5530.0 21	3140.0 21	1820.0 20	1060.0 21	1140.0 20	982.0 19	947.0 19	561.0 19
1964	3440.0 23	3100.0 23	2140.0 22	2040.0 22	1200.0 22	644.0 22	455.0 23	355.0 23	255.0 23	138.0 23
1965	35700.0 3	28900.0 4	16600.0 9	11500.0 12	7690.0 11	4130.0 14	4870.0 9	3980.0 9	2870.0 10	2100.0 8
1966	2170.0 24	1540.0 24	1070.0 24	896.0 23	802.0 23	539.0 23	481.0 22	468.0 22	367.0 22	220.0 22
1967	15900.0 18	10700.0 19	8530.0 18	6470.0 17	4360.0 16	2540.0 15	2120.0 16	2000.0 16	1330.0 17	684.0 18
1968	13600.0 19	10800.0 18	8850.0 16	5330.0 18	3820.0 17	2380.0 16	2590.0 15	2160.0 15	1730.0 15	1350.0 12
1969	18700.0 15	18500.0 14	16200.0 11	13900.0 9	11200.0 5	8620.0 5	7670.0 4	6820.0 4	4990.0 5	3270.0 5
1970	22200.0 13	19900.0 13	16300.0 10	14500.0 6	11200.0 6	6850.0 7	6270.0 6	4860.0 8	3320.0 9	2270.0 7
1971	13000.0 20	8450.0 20	7660.0 19	4260.0 19	2620.0 19	2010.0 18	1640.0 18	1420.0 18	1370.0 16	910.0 17
1972	16500.0 16	12200.0 17	8630.0 17	6820.0 15	4530.0 15	2330.0 17	1780.0 17	1530.0 17	1160.0 18	1090.0 16
1973	22400.0 12	20300.0 12	17700.0 8	15000.0 5	14400.0 3	9770.0 4	8680.0 3	7810.0 2	6370.0 3	3740.0 4
1974	34400.0 4	30700.0 3	18600.0 7	14100.0 8	10100.0 8	6180.0 9	5560.0 8	5530.0 5	5460.0 4	4060.0 2



## ARKANSAS RIVER BASIN

99

07171000 VERDIGRIS RIVER NEAR LENAPAH, OKLA.

LOCATION.--Lat 36°51'05", long 95°35'06", at center of sec.3, T.27 N., R.16 E., Nowata County, near right bank on downstream side of pier of county road bridge, 2.8 mi (4.5 km) east of Lenapah, 4.5 mi (7.2 km) upstream from Cedar Creek, and at mile 144.6 (232.7 km).

DRAINAGE AREA.--3,639 mi<sup>2</sup> (942.5 km<sup>2</sup>).

PERIOD OF RECORD.--October 1938 to September 1974. Statistical summaries for this station are divided into unregulated and regulated periods.

AVERAGE DISCHARGE.--11 years (1939-49), 2,599 ft<sup>3</sup>/s (73.6 m<sup>3</sup>/s); 25 years (1950-74), 2,048 ft<sup>3</sup>/s (58.0 m<sup>3</sup>/s).

REMARKS.--Some regulation, by dams in Kansas, since April 1949.

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

## VERDIGRIS RIVER NEAR LENAPAH, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	
YEAR	NUMBER OF DAYS IN CLASS																																		CFS-DAYS	
1940	114	18		20	22	4	8	8	8	7	11	9	11	12	12	9	7	14	14	11	7	10	9	4	8	3	4	2							177222.0	
1941						6	21	5	6	3	7	10	8	8	5	13	28	33	53	40	29	16	15	5	10	7	7	13	2	4	11				934925.0	
1942														1	2	9	9	10	28	43	40	56	37	26	20	13	20	12	16	14	9			1590093.0		
1943											3	8	15	14	8	6	10	8	15	50	59	38	34	22	15	15	6	4	5	5	8	6	2	1	3	1457148.0
1944											3	18	25	22	27	40	22	28	17	17	20	13	21	20	5	5	5	7	5	10	5	3	2		1100230.0	
1945											1	7	9	6	4	13	32	16	19	44	44	24	26	27	14	7	16	4	14	14	11	10	1	2	1517873.0	
1946	1		3	3	7	3	10	3	12	6	3	8	11	15	13	40	25	29	20	55	19	26	13	8	7	5	7	5	2	1	2	3			617742.9	
1947						2	9	8	10	6	6	15	41	44	34	15	15	14	18	15	17	16	10	13	9	10	9	6	9	3	2				891920.1	
1948						2	9	5	17	11	12	10	50	35	26	27	17	19	14	29	12	8	6	7	7	10	4	6	5	4	10	4			965348.0	

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	115	3288	100.0	9	17.00	40	2944	89.5	18	400.0	258	1754	53.3	27	9500	73	268	8.1					
1	1.00	14	3173	96.5	10	24.00	72	2904	88.3	19	570.0	313	1496	45.5	28	14000	55	195	5.9					
2	1.40	3	3155	96.0	11	34.00	101	2832	86.1	20	810.0	206	1183	36.0	29	19000	61	140	4.2					
3	2.00	25	3152	95.9	12	48.00	163	2731	83.1	21	1100.0	205	977	29.7	30	27000	56	79	2.4					
4	2.90	24	3129	95.2	13	64.00	154	2568	78.1	22	1600.0	160	772	23.5	31	39000	15	23	.6					
5	4.10	17	3100	94.3	14	97.00	151	2414	73.4	23	2300.0	112	612	18.6	32	55000	5	8	.2					
6	5.80	57	3083	93.8	15	140.00	177	2263	68.8	24	3300.0	88	500	15.2	33	79000								
7	8.30	24	3026	92.0	16	200.00	151	2086	63.4	25	4700.0	75	412	12.5	34	110000	3	3	.0					
8	12.00	55	2997	91.1	17	280.00	181	1935	58.9	26	6700.0	69	337	10.2										

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## VERDIGRIS RIVER NEAR LENAPAH, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1940	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	1.07	368.00
1941	1.60	1.33	2.57	6.64	7.07	105.00	469.00	537.00	525.00	1140.00
1942	28.00	29.30	33.60	47.10	71.80	297.00	1430.00	1586.00	3810.00	4070.00
1943	87.00	102.00	167.00	430.00	576.00	867.00	1300.00	1650.00	1770.00	3080.00
1944	20.00	21.00	23.30	28.00	36.10	65.80	132.00	200.00	216.00	3740.00
1945	18.00	18.70	24.40	35.70	8.126.00	280.00	494.00	680.00	1470.00	3960.00
1946	22.00	23.30	28.10	33.90	50.10	143.00	474.00	1330.00	2830.00	4050.00
1947	0.00	1.87	2.57	3.72	5.00	24.00	59.20	60.70	147.00	542.00
1948	5.30	5.70	6.44	7.43	18.50	27.80	75.10	70.60	98.60	2400.00
1949	23.00	26.00	27.10	28.60	31.60	59.90	369.00	301.00	1360.00	3830.00

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## VERDIGRIS RIVER NEAR LENAPAH, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1940	13300.0	9600.0	4730.0	3220.0	2190.0	1580.0	1140.0	991.0	967.0	484.0
1941	38200.0	35000.0	27100.0	17000.0	8870.0	7930.0	5620.0	4320.0	3810.0	2560.0
1942	34600.0	31700.0	25200.0	18000.0	14100.0	9900.0	7100.0	6500.0	4390.0	4360.0
1943	134000.0	119000.0	79400.0	47300.0	128500.0	18200.0	12300.0	9540.0	6850.0	3990.0
1944	61800.0	56300.0	39300.0	24700.0	22700.0	14600.0	10300.0	8020.0	5450.0	3010.0
1945	71300.0	62300.0	43300.0	25400.0	17200.0	12800.0	9060.0	7890.0	5500.0	4160.0
1946	50700.0	47200.0	33100.0	16300.0	8490.0	4390.0	3020.0	3300.0	2950.0	1690.0
1947	46800.0	42800.0	33900.0	15400.0	51200.0	8360.0	5830.0	5830.0	4560.0	2440.0
1948	41900.0	39000.0	36200.0	28800.0	17200.0	12900.0	8770.0	7070.0	5180.0	2640.0

VERDIGRIS RIVER NEAR LENAPAH, OKLAHOMA

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

## VERDIGRIS RIVER NEAR LENAPAH, OKLAHOMA

CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT
0	0.00	30	9131	100.0	9	4.20	143	9936	97.9	18	180.0	596	5523	60.5	27	7400	324	752	8.2
0	0.10	2	9192	97.7	10	6.30	265	9917	96.3	19	270.0	659	4927	54.0	28	11000	238	626	4.6
0	0.20	3	9099	99.6	11	24.00	245	8531	93.4	20	400.0	696	6268	67.8	29	17000	130	189	2.0
0	0.30	9	9096	99.6	12	14.00	427	8286	90.7	21	610.0	620	3582	39.2	30	26000	43	59	0.6
0	0.50	14	9087	99.5	13	22.00	399	7859	86.1	22	920.0	599	2962	32.4	31	39000	10	16	1.1
5	0.80	21	9073	99.4	14	33.00	410	7460	81.7	23	1400.0	415	2363	25.9	32	59000	5	6	0.0
6	1.20	19	9052	99.1	15	50.00	472	7050	77.2	24	2100.0	409	1948	21.3	33	90000	1	1	0.0
7	1.80	34	9033	98.9	16	76.00	504	6578	72.0	25	3200.0	412	1539	16.9	34				
8	2.70	63	8999	98.6	17	120.00	551	6074	66.5	26	4900.0	375	1127	12.3					

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## VERDIGRIS RIVER NEAR LENAPAH, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1950	61.00 23	63.00 22	78.40 23	92.00 22	104.00 20	169.00 16	257.00 13	263.00 13	396.00 12	1610.00 12
1951	44.00 20	45.00 20	47.70 18	57.90 18	69.00 15	77.30 11	79.40 9	82.00 9	281.00 9	1670.00 13
1952	306.00 25	366.00 25	399.00 25	518.00 25	884.00 25	1090.00 24	1060.00 23	1750.00 24	2210.00 22	5290.00 24
1953	4.30 4	4.43 4	4.70 4	5.23 4	6.70 4	8.77 4	10.90 4	13.70 3	15.40 2	424.00 5
1954	5.10 5	5.10 5	5.51 5	6.30 5	11.40 5	15.40 5	21.30 5	29.70 6	34.90 4	117.00 2
1955	0.20 2	0.23 2	0.30 2	0.41 2	1.08 2	2.06 2	5.74 2	41.80 7	218.00 6	548.00 7
1956	2.60 3	2.87 3	3.06 3	3.34 3	4.33 3	6.47 3	7.75 3	9.72 2	219.00 7	448.00 6
1957	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.91 1	1.70 1	4.80 1	5.88 1	70.20 1
1958	7.00 8	7.90 8	9.26 8	11.10 7	33.30 9	102.00 12	126.00 11	206.00 11	291.00 10	3500.00 21
1959	32.00 17	33.70 16	35.90 15	38.60 13	47.40 12	186.00 17	251.00 12	242.00 12	344.00 11	1530.00 11
1960	60.00 22	63.30 23	68.30 22	104.00 23	356.00 23	587.00 22	811.00 22	1200.00 21	2480.00 23	3060.00 19
1961	18.00 11	20.00 11	26.40 13	38.90 14	50.40 13	222.00 18	437.00 18	429.00 14	861.00 15	1700.00 15
1962	104.00 24	109.00 24	133.00 24	240.00 24	441.00 24	1700.00 25	1740.00 25	2800.00 25	4580.00 25	6260.00 25
1963	16.00 10	16.30 10	18.70 10	26.90 10	50.60 14	125.00 13	346.00 14	666.00 19	1230.00 17	1240.00 9
1964	10.00 9	11.30 9	11.40 9	13.40 9	19.30 7	20.00 6	21.30 6	22.50 4	23.10 3	120.00 3
1965	6.20 6	6.30 6	7.16 6	9.27 6	14.10 6	32.20 8	71.30 8	59.40 8	437.00 13	1020.00 8
1966	22.00 13	22.30 12	23.60 11	30.90 11	45.00 11	56.20 9	121.00 10	126.00 10	271.00 8	1970.00 16
1967	6.50 7	6.83 7	7.79 7	11.20 8	19.40 8	21.10 7	23.20 7	23.60 5	35.70 5	216.00 4
1968	29.00 14	35.00 18	51.70 20	73.40 21	226.00 22	386.00 21	575.00 20	597.00 16	1400.00 19	1670.00 14
1969	30.00 15	31.30 14	37.90 16	56.70 19	136.00 21	626.00 23	1260.00 24	1420.00 23	1810.00 21	2520.00 17
1970	41.00 19	43.70 19	60.00 21	71.00 20	97.20 18	146.00 14	431.00 17	590.00 15	1420.00 20	3130.00 20
1971	32.00 16	32.00 15	32.30 14	32.90 12	35.20 10	62.60 10	410.00 16	635.00 18	493.00 14	2640.00 18
1972	21.00 12	22.30 13	24.40 12	42.90 15	82.50 17	259.00 19	493.00 19	748.00 20	995.00 16	1280.00 10
1973	47.00 21	48.30 21	48.60 19	50.80 17	76.60 16	167.00 15	704.00 21	1300.00 22	1280.00 18	3960.00 22
1974	33.00 18	34.00 17	38.40 17	49.10 16	103.00 19	326.00 20	347.00 15	619.00 17	2600.00 24	5000.00 23

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## VERDIGRIS RIVER NEAR LENAPAH, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1950	30300.0 8	28700.0 7	20500.0 10	12400.0 13	9530.0 12	5960.0 10	5150.0 11	4360.0 11	3050.0 12	1730.0 12
1951	85200.0 2	66200.0 2	49300.0 2	37100.0 1	28500.0 1	17400.0 1	13300.0 1	11200.0 1	8340.0 1	4320.0 4
1952	19400.0 17	16900.0 17	11500.0 16	8100.0 16	5520.0 15	4650.0 14	3420.0 14	2890.0 14	2700.0 14	1530.0 14
1953	3360.0 25	2100.0 25	1430.0 25	1050.0 25	722.0 25	451.0 25	357.0 25	290.0 25	207.0 25	120.0 25
1954	25500.0 14	24000.0 11	15100.0 14	7860.0 17	4100.0 18	2230.0 19	1500.0 19	1130.0 20	751.0 21	390.0 21
1955	19200.0 18	16900.0 18	9150.0 20	4870.0 20	2890.0 20	1950.0 20	1320.0 21	1070.0 21	790.0 20	515.0 20
1956	12500.0 22	10800.0 23	5100.0 23	2560.0 23	1290.0 23	649.0 24	435.0 24	329.0 24	219.0 24	167.0 24
1957	30500.0 7	30000.0 5	24300.0 5	20100.0 4	19500.0 3	13200.0 3	9590.0 4	7330.0 5	4850.0 6	2440.0 10
1958	25600.0 13	23600.0 13	17900.0 12	16100.0 9	13300.0 6	8220.0 8	6010.0 10	4790.0 10	4320.0 8	2420.0 11
1959	28700.0 9	28300.0 8	27100.0 4	18000.0 7	9560.0 11	5330.0 12	4370.0 13	3720.0 13	2740.0 13	1530.0 15
1960	28200.0 10	27600.0 9	24000.0 6	19900.0 5	10900.0 9	5800.0 11	4400.0 12	3850.0 12	3440.0 11	2660.0 8
1961	114000.0 1	84100.0 1	55600.0 1	35200.0 2	25400.0 2	15400.0 2	11700.0 2	9340.0 3	7970.0 2	4740.0 3
1962	26400.0 11	24000.0 12	20000.0 11	13000.0 12	10900.0 10	7970.0 9	6730.0 8	5540.0 8	4530.0 7	2930.0 6
1963	15800.0 21	11400.0 21	7280.0 21	3890.0 21	2110.0 22	1230.0 22	1330.0 20	1180.0 19	1170.0 19	692.0 19
1964	12500.0 23	9340.0 22	5520.0 22	3850.0 22	2300.0 21	1240.0 21	1070.0 22	814.0 22	566.0 22	295.0 23
1965	37100.0 4	31800.0 4	23100.0 7	15500.0 10	8940.0 13	5010.0 13	6160.0 9	4990.0 9	3680.0 10	2580.0 9
1966	8250.0 24	4430.0 24	2200.0 24	1370.0 24	1240.0 24	969.0 23	767.0 23	711.0 23	543.0 23	327.0 22
1967	22600.0 16	17600.0 16	11400.0 17	8860.0 14	6670.0 14	3680.0 15	2790.0 16	2740.0 16	1930.0 16	986.0 18
1968	17300.0 19	12900.0 19	10300.0 18	6300.0 18	4360.0 17	2760.0 17	2930.0 15	2480.0 15	2190.0 15	1700.0 13
1969	24700.0 15	16400.0 15	16300.0 13	14700.0 11	12500.0 8	9750.0 5	8820.0 5	8030.0 4	5940.0 5	3920.0 5
1970	33400.0 5	26200.0 10	20900.0 9	17800.0 8	12900.0 7	8300.0 7	7610.0 6	5910.0 7	4060.0 9	2760.0 7
1971	16100.0 20	11600.0 20	9400.0 19	5070.0 19	2960.0 19	2310.0 18	2050.0 18	1630.0 18	1640.0 17	1110.0 17
1972	25800.0 12	21800.0 14	13100.0 15	8320.0 15	5280.0 16	2960.0 16	2630.0 17	2130.0 17	1570.0 18	1450.0 16
1973	31100.0 6	26900.0 6	22900.0 8	19100.0 6	18600.0 4	12700.0 4	10800.0 3	9750.0 2	7830.0 3	4820.0 2
1974	68800.0 3	56900.0 3	36200.0 3	22500.0 3	14400.0 5	8610.0 6	7530.0 7	7280.0 6	6960.0 4	5060.0 1

## ARKANSAS RIVER BASIN

07171400 VERDIGRIS RIVER NEAR OOLOGAH, OKLA.

LOCATION.--Lat 36°25'17", long 95°41'01", in NW 1/4 sec.2, T.22 N., R.15 E., Rogers County, on right bank 0.3 mi (0.48 km) downstream from Oologah Dam, 1.2 mi (1.9 km) upstream from Fourmile Creek, 2 mi (3.2 km) southeast of Oologah, and at mile 90.0 (144.8 km).

DRAINAGE AREA.--4,339 mi<sup>2</sup> (11,238 km<sup>2</sup>).

PERIOD OF RECORD.--June 1961 to September 1974.

AVERAGE DISCHARGE.--10 years (1965-74), 2,472 ft<sup>3</sup>/s (40.0 m<sup>3</sup>/s).

REMARKS.--Some regulation by several dams in Kansas prior to May 1963 and completely regulated thereafter by Oologah Lake in Oklahoma.

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

VERDIGRIS RIVER NEAR OOLOGAH, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS
1966										4	32	37	34	10	1	2	22	11	5	15	7	29	9	23	25	29	22	22	18	6	2				130915.8
1967	11	1	2	2		1	5	4	12	11	11	10	4	18	18	38	26	5	9	10	4	8	17	33	3	14	15	17	18	8	13	14	3		417913.6
1968															1	1	11	5	17	6	6	10	15	22	41	53	47	25	35	29	22	12	7	1	780371.6
1969	1			1		1	1	3							5	2	2	5	5	4	7	21	9	13	16	29	35	67	27	29	42	24	16		1703822.2
1970						1	1	2	1		1			1	1			1	30	51	9	16	28	26	21	22	31	15	17	14	20	21	20	15	1156306.5
1971						1	4	6	10	14	8	7	2	4	1	21	116	33	11	13	11	5	2	11	13	12	10	12	13	17	8				328129.7
1972								1	4	5	2	1					82	20	37	5	35	29	4	40	15	15	14	21	10	12	4	7	3		490687.4
1973																		3	13	61	6	3	1	7	19	26	10	42	48	25	31	26	43	1	2265256.0
1974																			21	37	17	1		1		28	14	23	19	36	51	58	43	15	2169139.0

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	12	3287	100.0	9	0.80	57	3221	98.0	18	34.0	153	2618	79.6	27	1500	167	1195	36.3
1	0.03	1	3275	99.6	10	1.20	68	3164	96.3	19	51.0	177	2465	75.0	28	2200	237	1028	31.2
2	0.04	2	3274	99.6	11	1.80	54	3096	94.2	20	78.0	148	2288	69.6	29	3400	187	791	24.0
3	0.06	3	3272	99.5	12	2.70	22	3042	92.5	21	120.0	103	2140	65.1	30	5100	189	604	18.3
4	0.09	0	3269	99.5	13	4.20	22	3020	91.9	22	180.0	141	2037	62.0	31	7800	190	415	12.6
5	0.10	3	3269	99.5	14	6.30	30	2998	91.2	23	270.0	123	1896	57.7	32	12000	130	225	6.8
6	0.20	8	3266	99.4	15	9.60	63	2968	90.3	24	420.0	165	1773	53.9	33	18000	93	95	2.8
7	0.30	13	3258	99.1	16	15.00	71	2905	88.4	25	630.0	202	1608	48.9	34	27000	2	2	.0
8	0.50	24	3245	98.7	17	22.00	216	2834	86.2	26	960.0	211	1406	42.8					

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

VERDIGRIS RIVER NEAR OOLOGAH, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL		
1967	0.00	1	0.00	1	0.02	1	0.72	1	0.80	1	248.00	1
1968	0.78	5	0.88	5	1.36	5	11.30	4	398.00	8	2110.00	3
1969	6.60	6	7.33	6	16.00	6	35.80	7	91.30	7	2820.00	4
1970	0.02	2	0.10	2	1.07	3	21.20	5	44.80	5	3440.00	7
1971	0.70	4	0.87	4	1.17	4	1.34	2	3.21	2	2950.00	5
1972	0.20	3	0.30	3	0.53	2	1.88	3	3.34	3	1320.00	2
1973	27.00	7	27.70	7	28.00	7	28.40	6	29.90	4	3640.00	6
1974	43.00	8	49.00	8	49.30	8	56.00	8	85.70	6	6660.00	8

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

VERDIGRIS RIVER NEAR OOLOGAH, OKLAHOMA

YEAR	1		3		7		15		30		60		90		120		183		ANNUAL	
1966	4890.0	9	3890.0	9	2230.0	9	1550.0	9	1330.0	9	1090.0	9	848.0	9	797.0	9	622.0	9	359.0	9
1967	14800.0	7	13900.0	7	12000.0	6	10000.0	6	7750.0	5	4610.0	5	3300.0	7	3080.0	6	2230.0	6	1140.0	7
1968	18900.0	6	16400.0	6	11900.0	7	6660.0	7	4780.0	7	3460.0	7	3540.0	6	3140.0	5	2780.0	5	2130.0	5
1969	24400.0	4	22900.0	4	20200.0	3	16500.0	3	13600.0	4	11700.0	2	10200.0	2	9490.0	2	7100.0	3	3670.0	3
1970	20700.0	5	20500.0	5	19300.0	4	16000.0	4	14600.0	3	10000.0	4	8680.0	4	6850.0	4	4620.0	4	3170.0	4
1971	10700.0	8	10300.0	8	8760.0	8	5410.0	8	3430.0	8	1920.0	8	2090.0	8	1600.0	8	1350.0	8	899.0	8
1972	25000.0	3	23300.0	3	18600.0	5	13200.0	5	7700.0	6	4200.0	6	3790.0	5	2980.0	7	2140.0	7	1340.0	6
1973	28700.0	1	27000.0	1	26300.0	1	25300.0	1	21100.0	1	14900.0	1	13000.0	1	11900.0	1	9840.0	1	6210.0	1
1974	27400.0	2	26900.0	2	26100.0	2	25300.0	2	17300.0	2	10500.0	3	9550.0	3	9220.0	3	8840.0	2	5940.0	2

ARKANSAS RIVER BASIN

103

07171500 VERDIGRIS RIVER NEAR SAGEEYAH, OKLA.

LOCATION.--Lat 36°23'18", long 95°40'05", in SW 1/4 NW 1/4 sec.13, T.22 N., R.15 E., at Missouri Pacific Railroad bridge, 1.25 mi (2.01 km) downstream from Sweetwater Creek, 1.5 mi (2.4 km) northwest of Sageeyah, 5.4 mi (8.7 km) upstream from Caney River, and at mile 83.7 (134.7 km).

DRAINAGE AREA.--4,402 mi<sup>2</sup> (11,401 km<sup>2</sup>).

PERIOD OF RECORD.--October 1938 to September 1945.

AVERAGE DISCHARGE.--7 years (1939-45), 3,368 ft<sup>3</sup>/s (95.4 m<sup>3</sup>/s).

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

VERDIGRIS RIVER NEAR SAGEEYAH, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34		
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS		
1939	11	10		5	10		10	2	42	53	68	23	20	14	8	9	8	14	12	10		6	6	4	7	4	2	4	2	1						174261.9	
1940	139	12		11	10	2	6	4	8	10	10	8	9	19	14	8	7	13	14	10	9	8	10	6	10	3	5	1								17676.0	
1941		5		11	9	2	3	2	6	3	2	2	13	10	12	7	16	33	30	46	30	23	20	13	16	10	9	7	8	5	12					1150790.0	
1942																																				2173792.0	
1943																																					1850452.0
1944																																					1296165.0
1945																																					1767168.0

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	150	2557	100.0	9	17.00	66	2237	87.5	18	410.0	159	1469	57.5	27	10000	54	239	9.3
1	1.00	27	2407	94.1	10	24.00	93	2171	84.9	19	590.0	227	1310	51.2	28	14000	62	185	7.2
2	1.40	0	2380	93.1	11	35.00	72	2078	81.3	20	840.0	210	1083	42.4	29	21000	55	123	4.8
3	2.00	27	2380	93.1	12	49.00	89	2006	78.5	21	1200.0	173	873	34.1	30	29000	48	68	2.6
4	2.90	29	2353	92.0	13	70.00	80	1917	75.0	22	1700.0	158	700	27.4	31	42000	12	20	.7
5	4.10	4	2324	90.9	14	100.00	64	1837	71.8	23	2400.0	98	542	21.2	32	60000	4	8	.3
6	5.90	19	2320	90.7	15	140.00	87	1773	69.3	24	3500.0	86	444	17.4	33	85000	2	4	.1
7	8.30	8	2301	90.0	16	200.00	97	1686	65.9	25	5000.0	59	358	14.0	34	120000	2	2	.0
8	12.00	56	2293	89.7	17	290.00	120	1589	62.1	26	7100.0	60	299	11.7					

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

VERDIGRIS RIVER NEAR SAGEEYAH, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1940	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	1.56 1	459.00 1
1941	1.00 2	1.00 2	1.00 2	1.93 2	3.03 2	216.00 3	513.00 3	645.00 3	646.00 3	1430.00 2
1942	53.00 5	53.70 5	55.30 5	64.20 5	91.90 4	326.00 5	1790.00 6	1930.00 5	4510.00 5	526.00 6
1943	148.00 6	179.00 6	226.00 6	487.00 6	804.00 6	1120.00 5	1610.00 5	1940.00 6	2130.00 5	4010.00 3
1944	24.00 3	25.00 3	27.60 3	37.50 3	50.60 3	83.30 2	287.00 2	405.00 2	402.00 2	4930.00 5
1945	32.00 4	33.70 4	38.10 4	60.00 4	137.00 4	285.00 4	529.00 4	947.00 4	1920.00 4	4570.00 4

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

VERDIGRIS RIVER NEAR SAGEEYAH, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL										
1939	16400.0	6	10700.0	6	7510.0	6	5250.0	6	3530.0	6	2310.0	6	1810.0	6	1400.0	6	934.0	7	477.0	7
1940	12100.0	7	8630.0	7	4270.0	7	3350.0	7	2210.0	7	1630.0	7	1200.0	7	1090.0	7	1080.0	6	540.0	6
1941	40800.0	5	38700.0	5	33200.0	5	18500.0	5	9730.0	5	9180.0	5	6660.0	5	5130.0	5	4560.0	5	3150.0	5
1942	45000.0	4	43200.0	4	36400.0	4	25900.0	4	20700.0	4	15900.0	4	10600.0	4	7910.0	4	6000.0	4	5960.0	1
1943	129000.0	1	119000.0	1	92800.0	1	60400.0	1	38700.0	1	23500.0	1	15900.0	1	12400.0	1	8780.0	1	4780.0	3
1944	57900.0	3	51600.0	3	39900.0	3	25600.0	4	24300.0	2	16100.0	2	11600.0	2	9150.0	3	6290.0	3	3540.0	4
1945	65000.0	2	59400.0	2	45000.0	2	30500.0	2	20100.0	4	15200.0	3	10900.0	3	9340.0	2	6600.0	2	4840.0	3





LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## CANEEY RIVER NEAR ELGIN, KANSAS

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1941	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	7.26 13	8.02 12	14.60 12	49.80 6
1942	0.00 2	0.67 18	1.00 18	1.29 19	1.70 17	9.65 20	38.80 26	89.40 27	212.00 29	341.00 24
1943	7.00 31	9.00 32	10.00 31	10.40 31	15.20 32	45.90 32	160.00 33	167.00 31	186.00 28	338.00 22
1944	1.00 22	1.00 22	1.00 19	1.14 16	1.63 16	2.78 12	2.98 10	3.38 11	6.68 8	257.00 19
1945	1.00 23	1.00 23	1.00 20	1.21 17	3.47 22	10.60 21	14.30 17	34.50 23	173.00 27	498.00 31
1946	0.40 19	0.47 17	0.83 17	1.29 18	2.52 19	8.68 18	63.80 29	109.00 28	359.00 33	466.00 30
1947	0.00 3	0.00 2	0.00 2	0.00 2	0.01 12	2.69 11	3.47 11	3.01 10	7.98 9	43.00 5
1948	0.00 4	0.00 3	0.00 3	0.00 3	0.00 2	0.00 2	0.16 7	0.58 7	0.89 6	281.00 20
1949	1.00 24	1.13 24	1.46 25	1.47 21	2.50 18	8.83 19	15.60 18	20.70 19	121.00 26	383.00 27
1950	2.40 27	2.40 27	2.57 27	3.20 27	8.49 29	28.60 29	40.50 27	43.60 24	50.80 22	170.00 17
1951	9.90 33	10.30 33	10.70 32	10.80 32	11.90 31	14.40 28	15.80 19	17.60 17	36.80 19	340.00 23
1952	18.00 34	19.70 34	24.70 34	29.90 34	45.30 34	150.00 34	170.00 34	281.00 34	294.00 32	550.00 33
1953	0.00 5	0.00 4	0.00 4	0.00 4	0.00 3	0.00 3	0.03 6	0.40 5	0.73 5	61.40 8
1954	0.00 6	0.00 5	0.00 5	0.00 5	0.00 4	0.00 4	0.00 1	0.00 1	0.00 1	18.40 3
1955	0.00 7	0.00 6	0.00 6	0.00 6	0.00 5	0.00 5	0.00 2	0.86 8	17.40 14	32.90 4
1956	0.00 8	0.00 7	0.00 7	0.00 7	0.00 6	0.00 6	0.19 8	1.56 9	12.30 10	64.10 9
1957	0.00 9	0.00 6	0.00 8	0.00 8	0.00 7	0.00 7	0.00 3	0.00 2	0.00 2	3.71 1
1958	0.00 10	0.73 19	1.11 22	1.56 23	5.59 26	10.90 24	11.70 16	13.60 14	16.60 13	450.00 29
1959	4.50 30	4.67 30	4.94 29	5.57 30	6.47 28	8.66 17	9.31 14	9.35 13	13.30 11	147.00 14
1960	4.00 29	4.17 29	4.99 30	5.31 29	9.37 30	45.00 31	102.00 30	152.00 30	291.00 31	388.00 28
1961	1.00 25	1.23 26	1.59 26	2.19 26	4.36 24	11.90 25	19.80 24	25.70 21	29.50 18	87.50 11
1962	8.20 32	8.80 31	10.90 33	16.30 33	38.30 33	58.60 33	133.00 31	237.00 33	563.00 34	803.00 34
1963	1.00 26	1.13 25	1.44 24	2.06 24	3.43 21	10.60 22	16.30 23	21.60 20	23.80 15	57.30 7
1964	0.00 11	0.00 9	0.00 9	0.00 9	0.00 8	0.00 8	0.00 4	0.00 3	0.00 3	8.50 2
1965	0.00 12	0.00 10	0.00 10	0.00 10	0.00 9	5.83 16	21.70 25	18.20 18	29.00 17	152.00 15
1966	0.00 13	0.07 15	0.13 15	0.19 15	1.15 14	4.39 13	9.64 15	16.80 16	23.80 16	159.00 16
1967	0.00 14	0.00 11	0.00 11	0.00 11	0.00 10	0.00 9	0.00 5	0.00 4	0.17 4	65.30 10
1968	0.10 18	0.10 16	0.16 16	1.36 20	5.65 27	12.00 26	60.20 28	57.50 26	85.90 24	108.00 13
1969	0.90 21	0.93 21	1.09 21	1.54 22	3.29 20	36.50 30	160.00 32	169.00 32	238.00 30	372.00 25
1970	2.80 28	2.93 28	3.21 28	4.14 28	5.32 25	10.70 23	15.90 21	55.70 25	72.70 23	285.00 21
1971	0.00 15	0.00 12	0.00 12	0.00 12	0.10 13	0.29 10	0.53 9	0.50 6	1.51 7	187.00 18
1972	0.00 16	0.00 13	0.00 13	0.00 13	0.01 11	5.08 15	16.30 22	29.20 22	44.50 21	94.10 12
1973	0.51 20	0.74 20	1.29 23	2.15 25	4.01 23	12.00 27	15.80 20	141.00 29	121.00 25	518.00 32
1974	0.00 17	0.00 14	0.03 14	0.14 14	1.33 15	4.92 14	6.71 12	16.00 15	38.00 20	373.00 26

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## CANEEY RIVER NEAR ELGIN, KANSAS

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1940	588.0 35	240.0 35	188.0 34	102.0 35	69.8 35	56.5 33	42.3 33	34.3 34	26.1 34	13.0 34
1941	6770.0 23	4230.0 21	2610.0 19	1440.0 21	958.0 21	697.0 20	491.0 20	391.0 22	305.0 21	171.0 22
1942	8820.0 18	5080.0 18	2950.0 16	2000.0 17	1350.0 18	800.0 18	639.0 18	532.0 17	527.0 14	452.0 5
1943	23400.0 4	11500.0 4	6160.0 4	4000.0 2	2350.0 4	1300.0 9	909.0 12	713.0 13	554.0 12	320.0 11
1944	25500.0 2	12700.0 3	6080.0 5	3950.0 3	2720.0 2	1550.0 6	1090.0 7	832.0 10	551.0 13	305.0 12
1945	20700.0 6	12800.0 2	7410.0 2	3460.0 5	2120.0 8	1490.0 7	1040.0 8	878.0 8	684.0 7	566.0 1
1946	3400.0 29	1820.0 28	1150.0 27	677.0 27	537.0 26	424.0 24	352.0 24	323.0 24	247.0 24	152.0 24
1947	19500.0 7	9970.0 7	6210.0 3	3450.0 6	2110.0 9	1570.0 4	1120.0 5	868.0 9	578.0 10	294.0 15
1948	5760.0 25	4610.0 19	2860.0 18	2130.0 16	1440.0 15	957.0 17	657.0 17	551.0 15	372.0 19	187.0 21
1949	6550.0 24	3600.0 24	2350.0 21	1670.0 20	1360.0 16	1050.0 12	834.0 13	725.0 12	609.0 9	342.0 10
1950	12100.0 14	7700.0 10	4630.0 10	2710.0 11	2290.0 7	1390.0 8	1110.0 6	923.0 6	642.0 8	347.0 9
1951	23800.0 3	10600.0 5	5120.0 8	3660.0 4	2400.0 5	1550.0 5	1270.0 4	996.0 4	736.0 3	387.0 7
1952	8210.0 21	3620.0 23	1900.0 25	1270.0 22	789.0 22	648.0 21	484.0 22	414.0 21	418.0 18	242.0 17
1953	1560.0 30	862.0 30	575.0 30	340.0 30	187.0 32	101.0 32	71.5 32	55.9 32	38.2 32	19.5 32
1954	3600.0 28	2240.0 27	1030.0 28	507.0 28	269.0 29	142.0 29	95.1 30	71.3 31	46.8 31	23.4 31
1955	9270.0 17	4360.0 20	2310.0 22	1260.0 23	671.0 23	349.0 26	234.0 26	176.0 27	117.0 27	67.2 27
1956	877.0 33	481.0 33	281.0 33	141.0 33	72.0 34	36.4 35	24.9 35	19.1 35	13.1 35	10.2 35
1957	22300.0 5	8710.0 8	5310.0 7	3190.0 9	2540.0 4	1940.0 1	1420.0 1	1090.0 2	720.0 5	361.0 8
1958	8690.0 19	3580.0 25	2260.0 23	1890.0 19	1350.0 17	993.0 13	724.0 14	554.0 14	431.0 17	229.0 18
1959	9770.0 16	5310.0 17	2890.0 17	2320.0 12	1230.0 19	646.0 22	491.0 21	421.0 20	291.0 23	153.0 23
1960	14800.0 12	7580.0 11	4450.0 11	3410.0 7	1840.0 11	972.0 16	671.0 16	539.0 16	485.0 15	302.0 14
1961	37000.0 1	15200.0 1	9750.0 1	5720.0 1	3360.0 1	1930.0 2	1370.0 3	1060.0 3	1040.0 2	548.0 3
1962	15000.0 10	6830.0 14	3660.0 14	2220.0 14	1710.0 13	1250.0 10	967.0 10	801.0 11	563.0 11	303.0 13
1963	1380.0 31	739.0 32	460.0 32	289.0 32	196.0 30	121.0 30	123.0 29	104.0 29	80.2 29	44.4 30
1964	703.0 34	325.0 34	179.0 35	121.0 34	79.2 33	52.8 34	39.4 34	37.8 33	29.8 33	14.9 33
1965	16300.0 9	8310.0 9	4200.0 12	2220.0 15	1190.0 20	707.0 19	509.0 19	437.0 19	469.0 16	274.0 16
1966	14800.0 11	5610.0 16	2540.0 20	1260.0 24	660.0 24	376.0 25	263.0 25	225.0 25	168.0 25	86.9 26
1967	3830.0 27	1530.0 29	776.0 29	501.0 29	419.0 28	264.0 28	179.0 28	157.0 28	107.0 28	53.6 28
1968	7370.0 22	3820.0 22	1950.0 24	1040.0 25	659.0 25	503.0 23	429.0 23	355.0 23	299.0 22	199.0 20
1969	12400.0 13	6180.0 15	3400.0 15	1920.0 18	1550.0 14	992.0 14	924.0 11	911.0 7	715.0 6	467.0 4
1970	10900.0 15	6840.0 13	4000.0 13	2260.0 13	1740.0 12	989.0 15	684.0 15	523.0 18	364.0 20	210.0 19
1971	1290.0 32	741.0 31	481.0 31	310.0 31	189.0 31	109.0 31	93.0 31	88.1 30	72.4 30	45.4 29
1972	5750.0 26	3170.0 26	1850.0 26	992.0 26	530.0 27	291.0 27	233.0 27	198.0 26	156.0 26	140.0 25
1973	8420.0 20	7100.0 12	5030.0 9	3170.0 10	2660.0 3	1730.0 3	1420.0 2	1300.0 1	1050.0 1	550.0 2
1974	16700.0 8	10000.0 6	6070.0 6	3260.0 8	1890.0 10	1130.0 11	1020.0 9	950.0 5	722.0 4	433.0 6

## MONTHLY DURATION TABLE

CANEY RIVER NEAR ELGIN, KANSAS

PERIOD 1934-1974

CLASS LIMIT	TOTAL PERCENT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
0.00	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0.02	86.5	86.6	86.5	86.6	95.2	100.0	98.1	90.7	77.7	78.5	73.5	77.9	83.1
0.03	86.5	86.6	86.5	86.6	95.2	100.0	98.1	90.7	77.7	78.4	73.5	77.9	83.1
0.04	86.5	86.6	86.5	86.6	95.2	100.0	98.1	90.7	77.7	78.4	73.5	77.9	83.1
0.06	86.5	86.6	86.5	86.6	95.2	100.0	98.1	90.7	77.6	78.4	73.5	77.9	83.1
0.10	86.5	86.6	86.5	86.6	95.2	100.0	98.1	90.7	77.6	78.4	73.5	77.9	83.1
0.15	85.9	86.3	86.5	87.8	94.5	100.0	97.7	89.9	75.5	77.4	73.1	77.2	83.1
0.25	85.2	86.3	86.2	86.5	93.8	100.0	97.4	88.6	74.4	76.7	72.8	74.7	83.1
0.36	84.6	86.3	87.1	85.7	93.4	99.9	97.1	87.6	72.9	75.3	72.4	74.0	83.1
0.55	83.6	86.0	85.5	84.7	93.0	99.8	97.0	86.5	71.2	73.7	70.8	72.5	82.9
0.85	82.3	83.1	83.5	83.6	91.6	99.6	96.9	84.1	69.2	72.2	70.0	71.4	82.5
1.30	80.2	80.3	80.4	82.8	91.1	99.3	96.2	82.1	65.1	67.4	68.5	69.8	79.1
2.00	77.9	75.9	76.4	81.7	89.9	98.2	95.0	79.7	62.3	64.0	65.8	69.0	75.5
3.10	74.8	74.5	76.2	80.0	88.5	97.3	93.1	76.3	53.5	57.5	61.7	66.5	72.7
4.80	71.9	74.2	74.7	78.2	86.4	96.6	90.9	71.2	47.6	53.1	58.2	63.0	69.4
7.50	68.4	73.0	71.7	76.3	84.5	95.3	87.7	65.1	41.0	48.5	51.7	59.8	66.2
11.00	64.9	68.5	69.3	75.6	81.8	93.5	84.8	57.9	35.9	44.0	48.5	57.1	63.0
17.00	59.9	62.3	63.2	74.3	79.7	87.7	78.7	49.4	29.2	38.0	44.6	53.5	58.3
26.00	54.0	54.7	58.1	72.1	75.5	83.8	72.0	38.8	23.6	32.3	41.2	47.0	49.9
41.00	46.7	50.4	52.0	64.8	70.1	76.5	59.8	29.7	17.8	26.0	34.8	38.5	41.1
62.00	39.2	41.4	43.2	57.1	61.4	67.2	49.0	24.4	13.5	21.7	29.6	28.3	34.0
96.00	31.0	29.5	30.5	45.1	56.8	54.7	35.9	19.4	8.5	16.5	25.1	23.0	27.2
150.00	23.3	18.5	20.4	34.3	46.0	43.4	26.1	15.5	6.5	12.2	18.3	18.2	20.3
230.00	16.9	11.5	13.3	25.5	36.3	32.3	19.3	12.0	4.8	8.9	12.2	14.3	12.1
350.00	11.7	7.0	9.7	17.8	27.0	22.0	14.0	9.3	3.6	6.3	7.9	10.4	6.1
530.00	8.0	5.0	5.2	12.1	19.3	14.6	9.9	6.4	2.3	4.8	6.0	7.0	3.3
820.00	5.1	2.9	3.3	7.8	11.8	9.6	6.7	4.4	1.4	3.4	4.0	3.6	1.9
1300.00	3.2	1.8	1.9	4.5	7.2	6.4	4.4	3.1	1.0	2.2	2.8	2.3	1.2
1900.00	2.3	0.7	0.8	3.1	5.2	4.5	3.5	2.4	0.6	1.9	2.0	1.7	0.7
3000.00	1.4	0.5	0.2	2.0	3.4	2.7	1.9	1.6	0.3	1.4	1.2	0.7	0.5
4600.00	0.8	0.1	0.1	1.1	1.7	1.7	1.6	1.2	0.1	1.0	0.8	0.5	0.3
7000.00	0.5	0.0	0.0	0.7	1.1	1.0	0.6	0.6	0.1	0.6	0.4	0.4	0.1
11000.00	0.2	0.0	0.0	0.1	0.4	0.5	0.4	0.2	0.0	0.3	0.1	0.1	0.1
17000.00	0.1	0.0	0.0	0.0	0.2	0.3	0.2	0.0	0.0	0.2	0.0	0.0	0.0
26000.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0

## STATISTICS OF ANNUAL DISCHARGE FOR WATER YEARS, 1940-74

Units of annual Discharge	Mean	Standard Deviation	Coefficient of Variation	Skew Coefficient	First Order Serial Correlation Coefficient
CFS	238	168	0.71	0.32	0.28
LOGS of CFS	2.183	0.507		-1.039	0.304

## ARKANSAS RIVER BASIN

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## 07173000 CANEY RIVER NEAR HULAH, OKLA.

LOCATION.--Lat 36°55'06", long 96°04'15", in NW 1/4 SE 1/4 sec.12, T.28 N., R.11 E., Osage County, on left bank 1,000 ft (304.8 m) downstream from the Atchison, Topeka, and Santa Fe Railway Co. bridge, 0.9 mi (1.5 km) downstream from Hulah Dam, 1.5 mi (2.4 km) upstream from Opossum Creek, 2.5 mi (4.0 km) west of Hulah, and at mile 95.3 (153.3 km).

DRAINAGE AREA.--736 mi<sup>2</sup> (1,906 km<sup>2</sup>).

PERIOD OF RECORD.--October 1937 to September 1974. Statistical summaries for this station are divided into unregulated and regulated periods.

AVERAGE DISCHARGE.--13 years (1938-50), 413 ft<sup>3</sup>/s (11.7 m<sup>3</sup>/s); 24 years (1951-74), 318 ft<sup>3</sup>/s (9.00 m<sup>3</sup>/s).

REMARKS.--Flow completely regulated since February 1950 by Hulah Lake in Oklahoma. About 5 to 9 ft<sup>3</sup>/s (0.14 to 0.25 m<sup>3</sup>/s) is diverted above station by city of Bartlesville for municipal water supply.

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

## CANEY RIVER NEAR HULAH, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34		
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS		
1938								7		56	32	49	19	24	23	15	21	17	17	14	12	10	11	10	3	9	4	5	2	3	2					126848.0	
1939	52							21	38	68	60	16	13	20	15	11	16	10	7	5	4	3			2											14343.0	
1940	154							65	22	10	10	11	7	12	12	13	13	9	5	7	5	2	4	1		1	1	1		1						22776.0	
1941	51							4	12	13	12	3	13	12	14	9	39	41	22	31	27	19	15	8	3	7	2	1	5		1	1				112546.0	
1942										1	2	2	5	11	14	14	14	49	44	53	48	28	28	8	10	12	7	6	7	2						264044.0	
1943								4		18	12	9	4	9	6	12	12	48	82	48	30	17	12	17	7	7	1	2	3	1		2	1	1			190124.0
1944								7		57	25	18	23	20	32	32	27	14	18	18	17	12	10	8	8	5	1	3	5	3		1	1	1			178122.0
1945								1		15	9	4	3	12	9	6	48	24	83	31	20	16	15	16	10	6	15	5	7	2	3	3	2				300938.0
1946	5	2	2	1	8	8	3	5	8	6	11	8	22	13	8	43	30	25	31	31	28	21	18	14	3	6	2	1	1					1		96161.7	
1947					13	19	6	7	3	10	25	51	50	31	14	13	14	11	12	12	7	18	9	11	7	5	7	3	2	2	1	2				139222.9	
1948					11	7	20	24	50	42	4	11	15	24	23	22	17	15	15	12	11	6	5	5	5	2	2	5	8	4	1					128602.5	
1949								1	17	10	21	10	18	36	17	27	22	12	20	20	35	30	25	12	5	17	4	4	2							172123.2	
1950								3	1					29	44	70	58	37	20	18	18	20	9	5	7	8	2	5	9	5	1					216877.5	

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	262	4748	100.0	9	3.00	312	4103	86.4	18	93.0	390	1857	39.1	27	2900	39	149	3.1					
1	0.10	2	4486	94.5	10	4.40	211	3791	79.8	19	140.0	293	1467	30.9	28	4200	48	110	2.3					
2	0.20	2	4484	94.4	11	6.50	203	3580	75.4	20	200.0	252	1174	24.7	29	6100	30	62	1.3					
3	0.30	1	4482	94.4	12	9.40	181	3377	71.1	21	290.0	226	922	19.4	30	8900	15	32	.6					
4	0.40	32	4481	94.4	13	14.00	200	3196	67.3	22	430.0	177	696	14.7	31	13000	10	17	.3					
5	0.70	34	4449	93.7	14	20.00	232	2996	63.1	23	620.0	155	519	10.9	32	19000	5	7	.1					
6	1.00	122	4415	93.0	15	30.00	251	2764	58.2	24	910.0	71	364	7.7	33	28000	2	2	.0					
7	1.40	128	4293	90.4	16	43.00	348	2513	52.9	25	1300.0	70	293	6.2	34									
8	2.10	62	4165	87.7	17	63.00	308	2165	45.6	26	1900.0	74	223	4.7										

## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## CANEY RIVER NEAR HULAH, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1939	2.00 10	2.00 9	2.00 7	2.00 5	2.07 5	2.98 4	3.20 3	3.63 3	4.60 3	306.00 5
1940	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.03 1	34.90 1
1941	0.00 2	0.00 2	0.00 2	0.00 2	0.00 2	0.20 2	15.90 6	24.90 7	50.00 6	123.00 3
1942	1.00 6	1.00 6	1.57 5	2.64 7	12.40 10	16.20 10	51.90 9	133.00 10	396.00 11	565.00 9
1943	6.00 12	7.33 12	12.10 12	29.40 12	41.90 12	66.00 12	201.00 12	232.00 12	237.00 9	524.00 8
1944	2.00 7	2.00 7	2.57 8	3.43 9	4.03 6	7.47 6	11.50 5	10.50 5	16.40 5	449.00 7
1945	2.00 8	2.00 8	2.00 6	2.50 6	5.40 9	14.30 8	25.70 8	62.90 9	257.00 10	773.00 12
1946	2.00 9	2.67 10	3.43 10	3.64 10	4.93 8	14.40 9	97.10 11	158.00 11	574.00 12	723.00 11
1947	0.00 3	0.00 3	0.03 3	0.20 3	0.53 3	5.26 5	5.35 4	6.26 4	12.80 4	50.00 2
1948	0.60 4	0.60 4	0.60 4	0.66 4	0.87 4	1.19 3	1.67 2	2.06 2	2.46 2	369.00 6
1949	2.90 11	3.00 11	3.17 9	3.36 8	4.34 7	11.90 7	19.20 7	24.10 6	218.00 8	624.00 10
1950	1.00 5	1.00 5	7.06 11	7.35 11	13.50 11	35.50 11	55.60 10	57.90 8	85.60 7	236.00 4

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## CANEY RIVER NEAR HULAH, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1938	12700.0 8	7700.0 9	6450.0 6	3730.0 6	2830.0 5	1590.0 7	1320.0 6	1010.0 7	661.0 9	348.0 9
1939	2260.0 13	1130.0 13	582.0 13	339.0 13	203.0 13	180.0 13	144.0 13	113.0 13	76.3 13	39.3 13
1940	6900.0 12	3370.0 12	1480.0 12	763.0 12	483.0 12	265.0 12	219.0 12	177.0 12	124.0 12	62.2 12
1941	13400.0 7	7190.0 10	4580.0 9	2450.0 10	1580.0 10	1360.0 9	948.0 10	741.0 10	565.0 10	308.0 10
1942	12600.0 9	9500.0 7	5350.0 7	3630.0 7	2210.0 8	1280.0 10	1140.0 9	958.0 9	849.0 5	723.0 2
1943	28000.0 2	23500.0 2	11900.0 1	7600.0 1	4260.0 2	2360.0 3	1620.0 3	1250.0 4	935.0 3	521.0 4
1944	31900.0 1	23700.0 1	11100.0 2	6490.0 2	4410.0 2	2460.0 1	1730.0 2	1330.0 2	884.0 4	487.0 5
1945	20800.0 4	16900.0 3	10600.0 3	4960.0 4	3110.0 4	2190.0 4	1510.0 4	1290.0 3	982.0 2	824.0 1
1946	22200.0 3	9650.0 6	4550.0 10	2310.0 11	1230.0 11	645.0 11	504.0 11	437.0 11	462.0 11	263.0 11
1947	18300.0 5	12600.0 5	7440.0 5	4090.0 5	2700.0 6	2050.0 5	1450.0 5	1120.0 5	748.0 7	381.0 7
1948	9830.0 10	7970.0 8	5050.0 8	3440.0 8	2450.0 7	1690.0 6	1160.0 8	1030.0 6	698.0 8	351.0 8
1949	8640.0 11	5400.0 11	3210.0 11	2500.0 9	2030.0 9	1500.0 8	1170.0 7	995.0 8	842.0 6	472.0 6
1950	16600.0 6	13500.0 4	8490.0 4	5110.0 3	3980.0 3	2400.0 2	1940.0 1	1600.0 1	1100.0 1	594.0 3

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

CANEEY RIVER NEAR HULAH, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS	
1951	12		12	1	4	14	16	18					4	7	4	7	25	25	34	31	33	15	9	14	14	11	12	5	11	6	8	7	6		187513.8	
1952		1	1	3		1		1					6	1	33	42	18	7	16	16	8	60	12	51	19	21	13	10	15	4	4	3			141973.3	
1953		15	38	14	5	3		2		9	5	26	183	39	6	2	4	3		4		3	1		1	1	1								10245.2	
1954		1	1	1				1					15255	33	29	1	7	4		5	3	2		1					4	1	1				25202.9	
1955												1	4154	60	67	14	3	7	11	12	3	2	5	2	7	4	5	1	3						47347.2	
1956													248	92	13	1	1	1		2		1	2	3			2								11526.0	
1957		22	1			2				1	2	13	91	42	105	5	4	8	3	1	5	2	2	4	3	4	7	7	5	5	3	16	2		219434.9	
1958													1	69	161	5	13	5	10	9	8	11	12	6	5	11	12	6	13	3	5				121012.7	
1959													7200	50	5	4	6	7	19	10	10	7	10	5	4	1	2	3	2	5	8				124728.3	
1960							3	6			1		6	61	11	2	8	15	33	35	42	37	21	26	13	12	6	10	6	1	3	8				172915.7
1961					2	1		1	1	3	3	23	35	72	19	10	17	23	12	11	18	10	16	20	8	4	7	12	4	10	13	10				247167.8
1962	1	4	5	1	6	8	4	2	1	1	2	2	25	31	39	7	9	9	28	13	26	15	35	28	12	6	11	8	6	12	8				175796.8	
1963											1	24	49	24	106	46	20	9	20	18	13	9	12	5	2	2	5								19378.8	
1964										11	1	5	8	65	163	90	9	1		1		4	2	1	2			3							10485.9	
1965													5	63	32	8	7	13	32	18	52	38	23	29	14	8	2	3	5	3	5	5				145008.2
1966													15	44	171	43	12	2	9	20	19	4	11	1	1	2	1	2	1	1	4	2			44264.8	
1967											4	14	30	143	97	17	1	2	6	4	6	5	5	2	8	2	13	3	3						31712.6	
1968											3	1	7	24	24	22	23	39	36	30	44	31	25	16	6	7	9	12	7						97137.8	
1969						1		1		1			24	35	5	19	2	1	7	9	16	35	50	38	26	41	12	10	15	10	7					236585.9
1970										10	3	9	16	106	33	8	30	21	29	19	11	5	8	3	7	13	11	5	7	11						110370.9
1971												15	36	151	100	16	2	5	2	12	14	5		5	2										12859.5	
1972									1	2		40	40	60	33	23	29	14	38	23	6	19	6	6	8	6	12									64361.2
1973											2		55	32	61	8	10	3	4	19	10	21	11	20	11	23	26	15	34						284177.1	
1974													24	73	22	2	1	3	2	28	26	15	18	4	39	32	35	12	13	1	15					247218.4

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	1	8766	100.0	9	2.50	23	8517	97.2	18	60.0	323	3094	35.3	27	1500	163	522	5.9
1	0.10	16	8765	100.0	10	3.50	68	8494	96.9	19	86.0	336	2771	31.6	28	2100	115	359	4.0
2	0.20	44	8749	99.8	11	5.00	183	8426	96.1	20	120.0	434	2435	27.8	29	3000	112	244	2.7
3	0.30	54	8705	99.3	12	7.10	646	8243	94.0	21	180.0	287	2001	22.8	30	4300	77	132	1.5
4	0.40	27	8651	98.7	13	10.00	2436	7597	86.7	22	250.0	339	1714	19.6	31	6200	53	55	.6
5	0.60	18	8624	98.4	14	15.00	1162	5161	58.9	23	360.0	258	1375	15.7	32	8800	2	2	.0
6	0.80	28	8606	98.2	15	21.00	403	3999	45.6	24	510.0	210	1117	12.7	33	13000			
7	1.20	26	8578	97.9	16	30.00	215	3596	41.0	25	730.0	215	907	10.3	34				
8	1.70	35	8552	97.6	17	42.00	287	3381	38.6	26	1000.0	170	692	7.9					



## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## CANBY RIVER NEAR HULAH, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1951	0.10 3	0.10 1	0.10 1	0.11 1	0.30 2	0.87 1	5.66 1	9.35 3	35.80 12	569.00 19
1952	2.00 11	0.53 21	30.60 24	34.90 24	53.50 24	225.00 24	268.00 24	453.00 24	460.00 22	795.00 23
1953	0.20 4	0.30 6	0.30 5	0.30 4	2.52 3	4.83 2	6.33 2	7.65 1	9.34 1	92.60 6
1954	0.20 5	0.20 3	0.20 3	0.20 2	0.28 1	11.40 14	11.60 9	11.60 6	12.20 4	29.30 3
1955	0.20 6	0.33 7	4.20 10	7.53 14	10.40 15	12.20 16	12.70 11	13.50 11	26.80 10	76.60 5
1956	9.70 24	10.00 24	10.00 20	10.00 18	10.00 13	10.50 10	10.70 5	11.00 5	48.30 16	140.00 10
1957	0.20 7	0.20 4	1.41 7	3.54 7	6.14 5	7.21 4	7.64 3	8.25 2	10.20 2	12.40 1
1958	0.20 8	0.20 5	0.20 4	0.20 3	16.00 22	16.70 19	17.10 17	17.20 15	17.30 9	717.00 20
1959	8.80 23	8.80 20	10.00 21	10.10 19	12.00 18	13.70 17	14.20 14	14.60 12	15.50 7	218.00 13
1960	8.30 22	8.70 19	10.00 22	10.40 21	10.70 16	62.70 21	186.00 23	272.00 22	627.00 23	725.00 21
1961	0.20 9	0.50 8	1.14 6	4.18 9	7.97 7	11.20 12	13.50 12	23.40 16	29.50 11	112.00 8
1962	0.00 1	9.80 22	10.00 23	10.60 22	28.80 23	63.00 22	181.00 22	371.00 23	944.00 24	1100.00 24
1963	0.10 2	0.10 2	0.14 2	0.34 5	8.14 9	9.89 9	14.60 15	17.10 14	16.50 8	67.10 4
1964	3.50 15	4.30 14	4.53 12	5.24 11	8.86 11	9.34 8	11.00 6	12.60 7	13.40 6	17.00 2
1965	2.00 12	2.00 10	2.03 8	2.92 6	8.08 8	8.87 6	11.30 7	13.30 10	43.10 15	190.00 12
1966	5.40 18	6.00 15	6.09 13	6.31 12	10.20 14	11.20 13	11.60 8	12.80 8	42.30 14	250.00 14
1967	6.80 20	7.20 17	7.91 17	8.14 15	8.56 10	8.85 5	9.33 4	9.68 4	10.20 3	105.00 7
1968	3.20 14	3.73 12	4.30 11	4.54 10	5.82 4	6.54 3	70.10 20	75.80 19	107.00 19	168.00 11
1969	4.10 17	4.17 13	6.46 14	8.27 16	12.40 19	76.80 23	176.00 21	189.00 21	296.00 21	464.00 17
1970	1.10 10	1.90 9	2.86 9	4.02 8	8.98 12	10.90 11	13.90 13	51.10 18	67.50 17	419.00 16
1971	3.40 16	6.37 16	6.63 16	10.10 20	11.40 17	11.80 15	11.70 10	12.90 9	12.70 5	264.00 15
1972	2.90 13	3.47 11	6.51 15	6.93 13	7.69 6	9.29 7	18.00 18	29.90 17	37.50 13	123.00 9
1973	6.30 19	7.90 18	8.47 18	9.58 17	12.60 20	19.70 20	21.20 19	131.00 20	116.00 20	488.00 18
1974	7.70 21	10.00 23	10.00 19	13.40 23	13.50 21	14.60 18	15.10 16	16.80 13	101.00 18	770.00 22

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## CANBY RIVER NEAR HULAH, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1951	7710.0 2	7360.0 4	6530.0 5	3850.0 6	2930.0 7	1840.0 6	1680.0 4	1330.0 5	989.0 5	514.0 6
1952	4630.0 12	4440.0 12	3590.0 12	2190.0 13	1340.0 13	1040.0 13	777.0 13	657.0 13	675.0 10	388.0 10
1953	1870.0 19	1400.0 20	813.0 21	436.0 21	227.0 22	121.0 22	85.6 22	68.1 21	46.7 22	28.1 24
1954	4310.0 13	3510.0 15	2570.0 16	1240.0 18	664.0 18	350.0 19	239.0 19	185.0 19	126.0 19	69.0 19
1955	4270.0 14	3860.0 14	2780.0 15	1830.0 15	1210.0 14	657.0 15	449.0 15	341.0 15	232.0 15	130.0 16
1956	1780.0 21	1370.0 21	874.0 20	460.0 20	238.0 20	125.0 21	87.2 21	68.1 22	48.3 21	31.5 22
1957	4240.0 1	9020.0 1	8390.0 1	7880.0 1	5210.0 1	3130.0 1	2400.0 1	1810.0 1	1190.0 3	601.0 5
1958	5300.0 10	4860.0 10	3190.0 14	3070.0 10	2270.0 9	1610.0 8	1110.0 9	861.0 10	643.0 12	332.0 12
1959	7150.0 5	7020.0 5	6960.0 3	4990.0 4	3300.0 4	1670.0 7	1240.0 8	977.0 8	666.0 11	342.0 11
1960	7000.0 3	7500.0 2	6810.0 4	4580.0 5	2940.0 6	1520.0 9	1080.0 10	897.0 9	797.0 8	472.0 8
1961	7410.0 4	7360.0 3	7150.0 2	5810.0 2	4410.0 2	2530.0 2	1870.0 2	1430.0 4	1290.0 2	677.0 3
1962	5620.0 8	5440.0 8	4750.0 8	3320.0 9	2480.0 8	2000.0 4	1590.0 5	1280.0 6	913.0 7	482.0 7
1963	940.0 23	867.0 23	599.0 23	385.0 22	237.0 21	141.0 20	158.0 20	127.0 20	69.8 20	53.1 20
1964	1190.0 22	1140.0 22	744.0 22	378.0 23	197.0 23	109.0 23	76.4 23	60.2 23	43.7 24	28.7 23
1965	7030.0 6	6950.0 6	6250.0 6	3840.0 7	2020.0 11	1150.0 12	831.0 12	691.0 12	682.0 9	397.0 9
1966	5420.0 9	4860.0 9	3750.0 11	2120.0 14	1100.0 15	584.0 16	394.0 16	339.0 16	229.0 16	121.0 17
1967	1820.0 20	1700.0 19	1440.0 19	742.0 19	643.0 19	443.0 17	299.0 18	245.0 18	163.0 18	86.9 18
1968	2860.0 17	2820.0 17	2360.0 17	1340.0 17	875.0 16	678.0 14	614.0 14	517.0 14	411.0 14	265.0 14
1969	4690.0 11	4570.0 11	4510.0 9	2820.0 11	2040.0 10	1440.0 10	1320.0 7	1260.0 7	983.0 6	668.0 4
1970	3980.0 16	3380.0 16	3260.0 13	2220.0 12	1680.0 12	1360.0 11	1030.0 11	776.0 11	522.0 13	302.0 13
1971	884.0 24	662.0 24	353.0 24	224.0 24	132.0 24	73.3 24	52.9 24	57.6 24	43.9 23	35.2 21
1972	2010.0 18	1950.0 18	1480.0 18	1360.0 16	768.0 17	432.0 18	357.0 17	293.0 17	215.0 17	176.0 15
1973	4140.0 15	4110.0 13	4030.0 10	3700.0 8	3000.0 5	2110.0 3	1870.0 3	1570.0 2	1360.0 1	779.0 1
1974	5830.0 7	5830.0 7	5830.0 7	5460.0 3	3190.0 4	1840.0 5	1590.0 6	1450.0 3	1140.0 4	677.0 2

## ARKANSAS RIVER BASIN

07174000 CANEY CREEK NEAR COPAN, OKLA.

LOCATION.--Lat 36°58'15", long 95°56'05", on south line of sec.19, T.29 N., R.13 E., at downstream side of right pier of highway bridge, 500 ft (12.7 m) downstream from The Atchison, Topeka and Santa Fe Railway Co. bridge, 3.5 mi (5.6 km) upstream from Cotton Creek, 5 mi (8.0 km) north of Copan, and at mile 18.9 (30.4 km).

DRAINAGE AREA.--424 mi<sup>2</sup> (1,098 km<sup>2</sup>).

PERIOD OF RECORD.--October 1943 to September 1958.

AVERAGE DISCHARGE.--14 years (1945-58), 231 ft<sup>3</sup>/s (6.54 m<sup>3</sup>/s).

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

## CANEY CREEK NEAR COPAN, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	
YEAR	NUMBER OF DAYS IN CLASS																																			CFS_DAYS
1945						9	10	3	7	2	6	8	6	11	29	32	28	55	32	22	17	18	15	5	8	5	3	11	6	5	6	6			179499.8	
1946	33	4	3	3	5	7	3	1	15	8	5	14	8	64	34	19	37	20	19	15	14	9	6	6	5	2	3	2					1		50210.0	
1947	21	17	16	6	8	17	9	18	36	26	31	22	7	17	10	12	6	8	16	8	13	10	5	6	6	3	3	5	2	1					83523.5	
1948	56	6	9	31	21	17	18	22	16	13	13	18	13	12	11	15	8	5	7	3	5	4	2	6	3	4	7	5	1	2					124174.3	
1949					2	26	8	6	18	21	31	10	15	14	13	15	21	20	29	27	18	18	17	4	6	14	5	6	1						121722.5	
1950									3	11	49	22	43	55	37	24	26	19	15	13	9	6	8	1	3	5	3	7	3	1	2					123349.0
1951						1				2	15	26	27	18	28	23	28	21	19	14	9	6	6	4	4	3	3	3	1	2			1	1	124256.7	
1952	30	1	1	3	3	11	7	5	14	7	10	6	7	15	12	18	15	43	36	33	29	21	15	2	7	6	7			1	1				70322.3	
1953	74	36	53	15	15	21	21	10	12	11	14	15	10	6	11	6	6	1	5	3	6	3	2	1	6	2									14052.9	
1954	123	51	46	16	14	11	7	11	7	6	8	11	8	5	8	6	5	4	6	1	3	2		2			1	1			1	1			22978.2	
1955	77	4	7	17	18	10	15	7	15	22	17	20	28	26	17	12	11	5	7	6	6	2	5	2	2	1	1	2	1	2					35317.0	
1956	63	11	86	33	19	12	6	6	2	2	3	3	6	1	2	1	1	1	2	1		2		2		1									5272.8	
1957	62	113	8	11	6	9	9	7	8	2	9	6	5	1	8	10	4	6	6	4	7	5	9	7	10	4	11	2	7	4	4	1			153472.3	
1958			15	3	8	5	5	12	23	20	47	27	27	17	20	19	16	18	15	10	12	12	8	5	7	5	2	2	3	1	1					72028.9

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	462	5113	100.0	9	2.90	157	3243	63.4	18	82.0	194	1127	22.0	27	2400	33	130	2.5
1	0.10	397	4651	91.0	10	4.10	194	3086	60.4	19	120.0	174	933	18.2	28	3400	45	97	1.8
2	0.20	242	4254	83.2	11	6.00	247	2892	56.6	20	170.0	164	759	14.8	29	5000	27	52	1.0
3	0.30	126	4012	78.5	12	8.70	308	2645	51.7	21	250.0	121	595	11.6	30	7200	18	25	.4
4	0.40	134	3886	76.0	13	13.00	269	2337	45.7	22	360.0	97	474	9.3	31	10000	5	7	.1
5	0.60	127	3752	73.4	14	18.00	261	2068	40.4	23	530.0	73	377	7.4	32	15000	1	2	.0
6	0.90	137	3625	70.9	15	27.00	219	1807	35.3	24	770.0	61	304	5.9	33	22000	1	1	.0
7	1.40	101	3488	68.2	16	39.00	235	1588	31.1	25	1100.0	48	243	4.8	34				
8	2.00	144	3387	66.2	17	56.00	226	1353	26.5	26	1600.0	65	195	3.8					

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## CANEY CREEK NEAR COPAN, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1945	0.30 9	0.30 9	0.37 9	0.47 9	2.49 11	6.80 11	28.90 12	64.10 12	243.00 13	515.00 13
1946	0.40 10	0.43 10	0.53 10	0.57 10	0.87 9	3.96 10	30.40 13	130.00 13	287.00 14	410.00 10
1947	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.28 7	7.34 8	9.02 8	16.80 6	32.20 2
1948	0.10 8	0.10 8	0.10 8	0.10 7	0.10 7	0.11 5	0.36 5	0.39 4	0.65 3	215.00 8
1949	0.50 11	0.60 11	0.84 11	0.95 11	1.24 10	3.85 9	11.80 10	10.50 9	223.00 12	508.00 12
1950	1.00 12	1.00 12	1.00 12	1.90 12	4.94 12	9.66 12	20.50 11	21.60 11	41.90 10	181.00 7
1951	1.00 13	3.53 13	4.21 13	5.54 13	9.81 13	9.97 13	10.20 9	11.70 10	24.10 7	331.00 9
1952	5.70 14	6.70 14	7.20 14	11.20 14	20.40 14	89.10 14	79.50 14	144.00 14	189.00 11	478.00 11
1953	0.00 2	0.00 2	0.00 2	0.00 2	0.00 2	0.00 1	0.02 3	0.09 2	0.18 2	41.40 4
1954	0.00 3	0.00 3	0.00 3	0.00 3	0.03 6	0.12 6	0.61 6	3.57 6	7.56 5	40.40 3
1955	0.00 4	0.00 4	0.00 4	0.00 4	0.00 3	0.00 2	0.00 1	5.30 7	40.20 9	86.50 6
1956	0.00 5	0.00 5	0.00 5	0.00 5	0.00 4	0.00 3	0.16 4	0.19 3	26.30 8	82.40 5
1957	0.00 6	0.00 6	0.00 6	0.00 6	0.00 5	0.00 4	0.01 2	0.08 1	0.09 1	1.65 1
1958	0.00 7	0.03 7	0.07 7	0.14 8	0.39 8	0.90 8	1.34 7	1.95 5	5.47 4	523.00 14

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## CANEY CREEK NEAR COPAN, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1945	9700.0 5	7280.0 5	5680.0 3	2660.0 5	1470.0 7	1090.0 6	754.0 6	750.0 5	570.0 6	492.0 1
1946	9240.0 6	3990.0 11	1860.0 12	926.0 12	481.0 12	346.0 12	336.0 10	264.0 10	249.0 10	138.0 10
1947	7230.0 9	5490.0 7	3630.0 6	2090.0 7	1600.0 6	1220.0 5	856.0 5	662.0 6	436.0 7	229.0 7
1948	10500.0 4	7900.0 4	5030.0 4	3160.0 4	2500.0 3	1830.0 2	1230.0 2	1010.0 2	677.0 2	339.0 4
1949	5840.0 11	4310.0 10	2140.0 10	1630.0 8	1410.0 8	976.0 8	723.0 8	639.0 7	625.0 5	333.0 6
1950	13100.0 3	10600.0 2	5930.0 2	3540.0 3	2290.0 4	1330.0 4	1120.0 4	928.0 4	632.0 4	338.0 5
1951	22100.0 1	16600.0 1	7550.0 1	4450.0 1	2840.0 2	1580.0 3	1220.0 3	959.0 3	662.0 3	340.0 3
1952	6380.0 10	3980.0 12	1880.0 11	1270.0 11	781.0 10	580.0 9	427.0 9	359.0 9	356.0 9	192.0 9
1953	1340.0 14	935.0 14	786.0 13	460.0 13	287.0 13	159.0 13	122.0 13	101.0 13	74.0 13	38.5 13
1954	9030.0 7	5620.0 6	2790.0 8	1330.0 10	685.0 11	360.0 11	240.0 12	180.0 12	118.0 12	63.0 12
1955	5220.0 12	5100.0 8	2820.0 7	1440.0 9	815.0 9	416.0 10	285.0 11	218.0 11	152.0 11	96.8 11
1956	1890.0 13	1130.0 13	673.0 14	319.0 14	160.0 14	80.0 14	53.4 14	40.1 14	26.4 14	14.4 14
1957	14400.0 2	8900.0 3	4740.0 5	3680.0 2	3300.0 1	2370.0 1	1690.0 1	1280.0 1	859.0 1	420.0 2
1958	8090.0 8	4460.0 9	2410.0 9	2210.0 6	1640.0 5	1040.0 7	729.0 7	555.0 8	384.0 8	197.0 8

## STATISTICS OF ANNUAL DISCHARGE FOR WATER YEARS, 1945-58

Units of annual Discharge	Mean	Standard Deviation	Coefficient of Variation	Skew Coefficient	First Order Serial Correlation Coefficient
CFS	231	150	0.65	0.11	0.20
LOGS of CFS	2.217	0.444		-1.255	0.193

LOCATION.--Lat 36°53'42", long 95°58'00", in W 1/2 sec.19, T.28 N., R.13 E., Washington County, near right bank on downstream side of pier of bridge on State Highway 10, 2 mi (3.2 km) west of Copan, 4.2 mi (6.8 km) downstream from Cotton Creek, and at mile 8.8 (14.2 km).

DRAINAGE AREA.--502 mi<sup>2</sup> (1,300 km<sup>2</sup>).

PERIOD OF RECORD.--October 1958 to September 1974.

AVERAGE DISCHARGE.--16 years (1959-74), 262 ft<sup>3</sup>/s (7.42 m<sup>3</sup>/s).

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

LITTLE CANEY RIVER BELOW COTTON CREEK NEAR COPAN, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34						
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS						
1959																																			53342.9						
1960																																			111841.2						
1961																																			220752.9						
1962	9																																			106058.1					
1963	41																																			17597.2					
1964	166																																			8088.1					
1965	22																																			99565.9					
1966	2	5	3																																			22790.8			
1967	56	1	9	18	12																																			35683.4	
1968																																			53895.0						
1969																																			155746.2						
1970																																			102576.2						
1971	4	7	3	4	11	10																																			22967.8
1972																																			45542.6						
1973																																			240134.2						
1974																																			231059.4						

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	300	5844	100.0	9	0.40	186	5269	90.2	18	22.0	479	3068	52.5	27	1100	118	342	5.8
1	0.01	1	5544	94.9	10	0.70	99	5083	87.0	19	34.0	408	2589	44.3	28	1700	74	224	3.8
2	0.02	14	5543	94.8	11	1.00	163	4984	85.3	20	52.0	392	2181	37.3	29	2600	81	150	2.5
3	0.03	18	5529	94.6	12	1.60	223	4821	82.5	21	80.0	371	1789	30.6	30	4000	46	69	1.1
4	0.05	15	5511	94.3	13	2.50	236	4598	78.7	22	120.0	331	1418	24.3	31	6200	13	23	.3
5	0.07	0	5496	94.0	14	3.80	250	4362	74.6	23	190.0	257	1087	18.6	32	9500	8	10	.1
6	0.10	81	5496	94.0	15	5.90	274	4112	70.4	24	300.0	200	830	14.2	33	15000	2	2	.0
7	0.20	86	5415	92.7	16	9.20	309	3838	65.7	25	460.0	159	630	10.8	34				
8	0.30	60	5329	91.2	17	14.00	461	3529	60.4	26	700.0	129	471	8.1					

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## LITTLE CANEY RIVER BELOW COTTON CREEK NEAR CUPAN, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1960	0.40 12	0.40 12	0.44 12	0.51 8	1.33 8	19.30 12	110.00 15	142.00 14	288.00 14	386.00 12
1961	0.20 10	0.20 9	0.31 9	0.61 10	1.76 9	3.30 6	15.10 6	21.40 6	27.80 4	95.20 5
1962	2.60 14	2.90 14	4.49 14	6.63 14	19.00 14	54.40 14	95.40 14	243.00 15	504.00 15	827.00 15
1963	0.00 1	0.00 1	0.00 1	0.04 5	0.28 4	3.53 7	5.73 3	9.85 4	72.30 10	81.40 4
1964	0.00 2	0.00 2	0.00 2	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.10 1	4.23 1
1965	0.00 3	0.00 3	0.00 3	0.00 2	0.00 2	0.47 3	32.60 11	27.30 7	35.60 6	68.40 3
1966	0.00 4	0.00 4	0.00 4	0.01 4	1.81 10	1.98 4	10.10 5	9.18 3	29.50 5	241.00 9
1967	0.00 5	0.00 5	0.00 5	0.00 3	0.00 3	0.00 2	0.02 2	0.19 2	1.12 2	48.40 2
1968	0.10 7	0.10 7	0.22 7	0.51 9	1.23 7	20.80 13	39.00 12	37.20 10	41.70 7	142.00 7
1969	3.80 15	4.00 15	5.50 15	10.80 15	27.40 15	92.70 15	91.90 13	109.00 13	168.00 13	275.00 10
1970	0.50 13	0.61 13	1.30 13	1.73 13	2.83 13	4.97 8	22.40 8	31.90 8	157.00 12	334.00 11
1971	0.10 8	0.20 8	0.37 10	0.46 7	0.86 5	2.04 5	7.28 4	10.50 5	9.77 3	235.00 8
1972	0.00 6	0.00 6	0.04 6	0.12 6	1.10 6	13.20 10	28.70 10	63.60 12	58.20 9	126.00 6
1973	0.28 11	0.30 11	0.39 11	1.05 12	2.11 11	7.66 9	21.90 7	33.20 9	48.40 8	470.00 13
1974	0.20 9	0.23 10	0.28 8	0.68 11	2.65 12	16.40 11	23.30 9	51.90 11	144.00 11	635.00 14

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## LITTLE CANEY RIVER BELOW COTTON CREEK NEAR CUPAN, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1959	7440.0 6	5760.0 6	3380.0 7	2300.0 6	1200.0 9	636.0 9	541.0 9	427.0 9	288.0 9	146.0 10
1960	9220.0 4	6900.0 4	4230.0 5	3400.0 3	1780.0 4	936.0 6	661.0 8	537.0 8	485.0 6	306.0 5
1961	20200.0 2	15800.0 1	10000.0 1	6370.0 1	4340.0 1	2590.0 1	1840.0 1	1390.0 2	1150.0 2	605.0 3
1962	8830.0 5	6260.0 5	4090.0 6	2120.0 8	1730.0 6	1090.0 4	865.0 5	714.0 5	507.0 5	291.0 6
1963	1970.0 14	1210.0 15	625.0 15	332.0 15	193.0 15	111.0 15	129.0 15	107.0 14	88.4 14	48.2 15
1964	1070.0 16	702.0 16	422.0 16	213.0 16	108.0 16	64.8 16	59.4 16	57.4 16	44.0 16	22.1 16
1965	12700.0 3	9250.0 3	5350.0 3	2690.0 5	1400.0 8	816.0 8	715.0 7	579.0 7	452.0 7	273.0 8
1966	4390.0 12	3620.0 12	1950.0 12	999.0 12	518.0 12	278.0 13	194.0 13	169.0 13	119.0 13	62.4 14
1967	4990.0 10	4530.0 8	2630.0 9	1320.0 10	861.0 10	520.0 10	367.0 10	284.0 11	194.0 11	97.8 12
1968	2640.0 13	2450.0 13	1410.0 13	761.0 13	517.0 13	376.0 12	362.0 11	314.0 10	246.0 10	147.0 9
1969	5800.0 8	4340.0 9	3170.0 8	1900.0 9	1740.0 5	956.0 5	917.0 4	840.0 4	636.0 4	427.0 4
1970	5070.0 9	3750.0 11	2570.0 10	2250.0 7	1500.0 7	921.0 7	803.0 6	629.0 6	419.0 8	281.0 7
1971	1730.0 15	1280.0 14	740.0 14	403.0 14	226.0 14	171.0 14	129.0 14	99.8 15	84.5 15	62.9 13
1972	4400.0 11	3840.0 10	2150.0 11	1150.0 11	676.0 11	422.0 11	352.0 12	275.0 12	193.0 12	124.0 11
1973	6800.0 7	5590.0 7	4500.0 4	3080.0 4	2650.0 3	2060.0 2	1600.0 2	1450.0 1	1160.0 1	658.0 1
1974	22000.0 1	14500.0 2	9280.0 2	4970.0 2	2840.0 2	1600.0 3	1300.0 3	1280.0 3	972.0 3	633.0 2

## STATISTICS OF ANNUAL DISCHARGE FOR WATER YEARS, 1959-74

Units of annual Discharge	Mean	Standard Deviation	Coefficient of Variation	Skew Coefficient	First Order Serial Correlation Coefficient
CFS	262	216	0.82	0.83	0.35
LOGS of CFS	2.244	0.439		-0.440	0.275



## ARKANSAS RIVER BASIN

07174500 CANEY RIVER AT BARTLESVILLE, OKLA.

LOCATION.--Lat 36°53'42", long 95°58'08", in SE 1/4 NE 1/4 sec.7, T.26 N., R.13 E., near right bank on downstream side of pier of bridge on U.S. Highway 60 at Bartlesville, 0.7 mi (1.1 km) downstream from Coon Creek, 3.2 mi (5.1 km) upstream from Sand Creek, and at mile 67.0 (107.8 km).

DRAINAGE AREA.--1,465 mi<sup>2</sup> (3,794 km<sup>2</sup>).

PERIOD OF RECORD.--October 1949 to September 1956.

AVERAGE DISCHARGE.--7 years (1950-56), 494 ft<sup>3</sup>/s (14.0 m<sup>3</sup>/s).

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

## CANEY RIVER AT BARTLESVILLE, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS
1951								6	18	21	23	34	23	11	16	29	36	21	10	10	20	6	5	13	9	3	9	10	11	12	6		2	1	367180.0
1952					1	1	26	5	14	30	17	9	4	7	11	10	15	27	34	12	38	24	12	15	9	12	5	13	13	2				266368.4	
1953	16	11	15	21	53	48	46	42	22	15	16	5	9	5	6	3	6	3	5	1	2	2	5	2	6								37073.1		
1954	1		4	7	27	153	57	34	11	10	5	8	7	1	7	1	4	4	5	2	1	1	1	2			3	4	3	2			65568.9		
1955			1	2	17	37	43	43	45	29	19	16	20	5	13	14	5	9	6	4	5	3	8	4	3	4	3	5	2				102719.8		
1956	10	26	22	26	68	115	40	14	14	6	4	2	2	3	2		1	1		3	1		1	2	2	1							18540.1		

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	2192	100.0	9	22.00	143	1122	51.2	18	260.0	61	437	19.9	27	3100	30	89	4.0
1	2.40	27	2192	100.0	10	29.00	100	979	44.7	19	340.0	38	376	17.2	28	4100	32	59	2.6
2	3.20	37	2165	98.6	11	38.00	87	879	40.1	20	450.0	68	338	15.4	29	5400	18	27	1.2
3	4.20	42	2128	97.1	12	50.00	58	792	36.1	21	600.0	39	270	12.3	30	7200	6	9	.4
4	5.50	57	2086	95.2	13	66.00	56	734	33.5	22	790.0	23	231	10.5	31	9400		3	.1
5	7.20	166	2029	92.6	14	87.00	41	678	30.9	23	1000.0	43	208	9.5	32	12000	2	3	.1
6	9.50	379	1863	85.0	15	110.00	67	637	29.1	24	1400.0	28	165	7.5	33	16000	1	1	.0
7	13.00	197	1484	67.7	16	150.00	69	570	26.0	25	1800.0	26	137	6.3	34	22000			
8	17.00	165	1287	58.7	17	200.00	64	501	22.9	26	2400.0	22	111	5.1					

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## CANEY RIVER AT BARTLESVILLE, OKLAHOMA

YEAR	1		3		7		14		30		60		90		120		183		ANNUAL	
1951	16.90	5	16.00	5	16.10	5	18.40	5	22.90	5	27.50	5	32.90	5	37.10	5	118.00	5	1090.00	5
1952	49.00	6	51.70	6	61.60	6	64.70	6	92.90	6	362.00	6	464.00	6	895.00	6	836.00	6	1510.00	6
1953	2.40	1	2.40	1	2.89	1	5.84	2	7.65	2	9.36	1	10.20	2	10.20	1	176.00	1	176.00	1
1954	2.40	2	2.77	2	4.33	2	5.47	1	6.20	1	10.40	3	11.80	3	15.70	3	20.00	2	102.00	2
1955	4.80	3	6.70	3	7.69	4	8.75	4	10.40	4	12.50	4	14.90	4	27.80	4	73.40	3	226.00	3
1956	5.80	4	6.80	4	7.34	3	8.29	3	8.66	3	9.50	2	9.92	1	10.30	2	87.80	4	268.00	4

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## CANEY RIVER AT BARTLESVILLE, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL										
1951	20500.0	1	16300.0	1	11400.0	1	8480.0	1	6270.0	1	3800.0	1	3250.0	1	2560.0	1	1890.0	1	1010.0	1
1952	5640.0	4	5110.0	4	4780.0	3	4070.0	2	2610.0	2	2020.0	2	1500.0	2	1260.0	2	1290.0	2	728.0	2
1953	2360.0	6	2000.0	6	1560.0	6	1130.0	5	713.0	5	421.0	5	299.0	5	239.0	5	185.0	5	102.0	5
1954	6810.0	2	5810.0	2	4880.0	2	3170.0	4	1660.0	4	1000.0	4	672.0	4	509.0	4	338.0	4	180.0	4
1955	5990.0	3	5490.0	3	4710.0	4	3620.0	3	2410.0	3	1310.0	3	903.0	3	701.0	3	486.0	3	281.0	3
1956	2460.0	5	2050.0	5	1700.0	5	952.0	6	484.0	6	247.0	6	168.0	6	129.0	6	87.8	6	50.7	6

ARKANSAS RIVER BASIN

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07174600 SAND CREEK AT OKESA, OKLA.

LOCATION.--Lat 36°43'10", long 96°07'56", in NW 1/4 NW 1/4 sec.21, T.26 N., R.11 E., Osage County, on downstream side of left abutment of county road bridge, 0.5 mi (0.80 km) northeast of Oksa, 9 mi (14.5 km) southwest of Bartlesville, and at mile 17.2 (27.7 km).

DRAINAGE AREA.--139 mi<sup>2</sup> (360 km<sup>2</sup>).

PERIOD OF RECORD.--October 1959 to September 1974.

AVERAGE DISCHARGE.--15 years (1960-74), 66.3 ft<sup>3</sup>/s (1.88 m<sup>3</sup>/s).

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

SAND CREEK NEAR OKESA, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	
YEAR	NUMBER OF DAYS IN CLASS																																		CFS-DAYS	
1960	14						3	3	6	6	16	16	20	10	4	22	24	25	37	61	43	15	11	7	7	6	4	2	1	1	1	1			32893.0	
1961	29						1	3	1	3	6	42	32	29	20	22	18	24	32	20	22	17	9	9	6	5	6	1	4	1	1		1	1	44913.1	
1962	18						3	1	12	6	20	9	6	13	11	11	14	57	48	40	40	16	9	16	4	3	4		1	2	1			24648.1		
1963	98						2	1		7	6	5	33	19	48	48	35	20	11	14	7	3	2	4	1	1								4246.7		
1964	207						9	1	1	2	3	3	7	16	18	16	17	16	16	6	9	5	1	6	1	2	2	1		1				9203.7		
1965	33						11	16	5	12	7	7	5	16	16	9	19	28	73	24	23	13	10	10	5	5	6	1	3	2	1			28557.1		
1966	122	4	5	7	3	5	8	10	1	11	15	55	13	32	13	15	11	14	9	3	2	3	1	1	1	1								2324.8		
1967	64	1		3	3	25	18	14	30	20	29	20	17	17	29	15	10	9	4	11	5	5	1	1	2			1	1					5154.4		
1968	55	1					1			1	4	4					11	15	14	32	46	58	33	22	18	12	8	8	5		2	3		14111.8		
1969	45	1			5		9			4	7	7	3	7	5	10	6	10	30	55	53	33	25	17	4	9	4	3	4	3	1	1		31214.2		
1970	72						9	2	3	2	17	17	37	34	25	26	14	19	20	13	14	12	9	7	2	3	2	3	1	1	1			18558.6		
1971	75					45	16	12	24	18	20	18	28	19	20		18	16	10	6	5	6	4	1	2	1								4507.4		
1972	23		1		5	1	10	3	6	11	14	13	26	21	28	35	47	35	24	16	15	10	4	4	5							1		12206.3		
1973	12	4	2	1	8	1	4	2	3	10	6	3	3	9	10	12	11	15	33	32	34	32	29	27	13	17	12	3	5	7	1			63098.4		
1974	17	1	2	1	1		3	4	3	1	1		8	7	14	20	28	26	53	34	45	24	14	16	12	9	5		8	1	1		1	1	63334.2	

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	849	5479	100.0	9	0.40	126	4198	76.6	18	18.0	467	1874	34.2	27	610	19	80	1.4
1	0.01	12	4590	83.8	10	0.60	169	4072	74.3	19	24.0	360	1407	25.7	28	1200	30	61	1.1
2	0.02	10	4578	83.6	11	1.00	213	3903	71.2	20	42.0	319	1047	19.1	29	1900	17	31	.5
3	0.03	12	4566	83.4	12	1.50	243	3690	67.3	21	65.0	202	728	13.3	30	2900	9	14	.2
4	0.05	26	4556	83.2	13	2.20	271	3447	62.9	22	98.0	133	526	9.6	31	4400	1	5	.0
5	0.07	32	4530	82.7	14	3.40	279	3176	58.0	23	150.0	125	393	7.2	32	6700	2	4	.0
6	0.10	136	4498	82.1	15	5.10	309	2847	52.9	24	230.0	78	268	4.9	33	10000	2	2	.0
7	0.20	76	4362	79.6	16	7.80	322	2588	47.2	25	350.0	62	190	3.5	34				
8	0.30	88	4286	78.2	17	12.00	392	2266	41.4	26	530.0	48	128	2.3					

## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## SAND CREEK NEAR OKESA, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1961	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.09 7	0.48 5	2.80 5	3.24 5	23.90 4
1962	1.60 14	1.73 14	2.07 14	3.29 14	17.30 14	30.10 14	30.40 14	55.70 14	102.00 14	170.00 13
1963	0.00 2	0.00 2	0.00 2	0.00 2	0.16 11	0.40 9	2.21 8	7.60 10	17.10 9	23.30 3
1964	0.00 3	0.00 3	0.00 3	0.00 3	0.00 2	0.00 1	0.00 1	0.00 1	0.00 1	3.01 1
1965	0.00 4	0.00 4	0.00 4	0.00 4	0.00 3	2.05 10	10.20 12	21.70 13	39.00 12	56.30 10
1966	0.00 5	0.00 5	0.00 5	0.00 5	0.00 4	0.00 2	0.06 3	0.36 3	2.27 4	49.30 7
1967	0.00 6	0.00 6	0.00 6	0.00 6	0.00 5	0.00 3	0.05 2	0.20 2	0.27 2	4.48 2
1968	0.00 7	0.00 7	0.00 7	0.00 7	0.06 10	6.50 13	12.50 13	15.90 11	23.30 10	34.50 6
1969	0.00 8	0.00 8	0.00 8	0.00 8	0.00 6	0.00 4	0.59 6	3.58 6	35.10 11	70.20 11
1970	0.00 9	0.00 9	0.00 9	0.00 9	0.01 9	0.14 8	1.88 7	4.88 8	8.57 6	51.00 9
1971	0.00 10	0.00 10	0.00 10	0.00 10	0.00 7	0.00 5	0.17 4	2.03 4	1.54 3	49.90 8
1972	0.00 11	0.00 11	0.00 11	0.00 11	0.00 8	0.09 6	7.18 10	6.32 9	13.10 8	32.10 5
1973	0.00 12	0.00 12	0.00 12	0.00 12	0.60 12	2.32 11	3.13 9	4.74 7	11.70 7	114.00 12
1974	0.00 13	0.00 13	0.00 13	0.36 13	2.68 13	4.64 12	9.37 11	19.00 12	45.00 13	190.00 14

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## SAND CREEK NEAR OKESA, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1960	6000.0 3	4240.0 2	2020.0 2	996.0 2	506.0 3	262.0 4	195.0 4	161.0 5	145.0 4	89.9 4
1961	10200.0 2	3740.0 3	1790.0 3	934.0 3	489.0 4	371.0 3	285.0 3	226.0 3	238.0 3	123.0 3
1962	2970.0 9	1290.0 10	674.0 9	528.0 7	345.0 6	234.0 5	174.0 8	140.0 8	107.0 7	67.6 7
1963	440.0 14	213.0 15	108.0 15	76.8 14	54.8 13	33.8 13	31.3 13	26.5 13	21.8 13	11.6 14
1964	2790.0 10	1310.0 8	678.0 8	332.0 9	201.0 10	103.0 11	74.2 11	67.3 11	50.3 11	25.1 11
1965	3190.0 7	1650.0 6	1040.0 5	535.0 6	305.0 8	214.0 6	176.0 6	150.0 6	123.0 6	78.2 6
1966	388.0 15	260.0 14	125.0 14	74.2 15	42.6 15	24.7 15	17.6 15	17.9 15	12.5 15	6.4 15
1967	1400.0 12	574.0 12	257.0 12	124.0 12	73.6 12	41.1 12	43.8 12	34.8 12	27.7 12	14.1 12
1968	1740.0 11	739.0 11	411.0 11	237.0 11	204.0 9	130.0 9	133.0 9	120.0 9	86.3 9	49.5 9
1969	4000.0 4	1880.0 5	996.0 6	634.0 5	370.0 5	195.0 8	175.0 7	174.0 4	135.0 5	85.5 5
1970	3690.0 5	1470.0 7	708.0 7	471.0 8	334.0 7	199.0 7	181.0 5	141.0 7	93.9 8	50.8 8
1971	1050.0 13	410.0 13	188.0 13	88.5 13	52.5 14	27.7 14	22.1 14	19.2 14	14.5 14	12.3 13
1972	2980.0 8	1300.0 9	625.0 10	327.0 10	191.0 11	121.0 10	95.6 10	74.8 10	52.1 10	33.4 10
1973	3750.0 6	2150.0 4	1240.0 4	681.0 4	626.0 2	538.0 1	427.0 2	362.0 2	292.0 1	173.0 2
1974	13200.0 1	7340.0 1	3520.0 1	1730.0 1	931.0 1	517.0 2	445.0 1	374.0 1	281.0 2	174.0 1

## STATISTICS OF ANNUAL DISCHARGE FOR WATER YEARS, 1960-74

Units of annual Discharge	Mean	Standard Deviation	Coefficient of Variation	Skew Coefficient	First Order Serial Correlation Coefficient
CFS	66.3	55.3	0.83	0.92	0.45
LOGS of CFS	1.641	0.451		-0.426	0.271

## ARKANSAS RIVER BASIN

117

07174700 CANEY RIVER NEAR OCHELATA, OKLA.

LOCATION.--Lat 36°38'26", long 95°56'02", in SW 1/4 SW 1/4 sec.16, T.25 N., R.13 E., Washington County, near right bank on downstream side of pier of bridge on U.S. Highway 75, 3.5 mi (5.6 km) upstream from Fish Creek, 4.0 mi (6.4 km) northeast of Ochelata, 8.0 mi (12.9 km) southeast of Bartlesville, and at mile 53.8 (86.6 km).

DRAINAGE AREA.--1,753 mi<sup>2</sup> (4,540 km<sup>2</sup>).

PERIOD OF RECORD.--April 1956 to September 1974.

AVERAGE DISCHARGE.--18 years (1957-74), 947 ft<sup>3</sup>/s (26.8 m<sup>3</sup>/s).

REMARKS.--Some regulation by Hulah Lake 42.4 mi (68.2 km) upstream.

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

CANEE RIVER NEAR OCHELATA, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS	
1957	3	6	8	4	4	3	28	50	32	31	27	25	11	11	8	7	5	6	3	1	6	2	3	5	4	9	11	10	21	14	6	1	648021.2			
1958											19	46	38	57	42	42	15	8	7	2	12	6	8	6	6	13	11	16	11				259394.0			
1959											36	65	41	30	21	27	21	17	14	12	8	12	12	6	6	3	6		4	13	5	3	2	1	305298.0	
1960											11	11	21	16	10	12	11	16	28	22	28	40	31	32	10	10	8	11	11	17	6	1	3	443215.0		
1961											8	5	2	34	45	17	21	31	15	10	14	17	14	10	13	13	7	12	12	15	28	13	4	3	2	643332.8
1962											10	21	41	9	8	7	14	14	21	30	30	36	27	17	9	9	11	15	17	12	7			390278.0		
1963											3	4	45	38	43	42	29	31	30	25	23	14	9	11	3	2	4	3	5	1			58259.1			
1964											6	8	88	94	39	27	21	18	17	12	8	4	4	3	4	1	5	2	2	1	2	2		58358.6		
1965											36	14	13	13	4	11	16	10	31	40	47	24	20	18	15	9	7	10	14	7	2	4		342545.0		
1966											6	40	49	82	41	22	20	22	13	22	9	1	2	1	3	1	2	1	5	3			78246.8			
1967											1	80	79	47	23	17	14	10	12	13	8	8	5	5	7	14	5	7	3	2	4	1		121890.4		
1968																																		220872.0		
1969																																			544203.0	
1970																																			328161.0	
1971																																			65309.0	
1972																																			194819.0	
1973																																			816585.0	
1974																																			708879.0	

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	6574	100.0	9	8.10	59	6459	98.3	18	150.0	325	2938	44.7	27	2800	196	722	10.9
1	0.00	3	6574	100.0	10	11.00	386	6400	97.4	19	210.0	249	2613	39.7	28	3900	216	526	8.0
2	0.00	6	6571	100.0	11	16.00	481	6014	91.5	20	290.0	289	2314	35.2	29	5400	162	310	4.7
3	1.10	8	6565	99.9	12	21.00	649	5533	84.2	21	400.0	295	2025	30.8	30	7500	78	148	2.2
4	1.00	4	6557	99.7	13	30.00	481	4884	74.3	22	560.0	232	1730	26.3	31	10000	45	70	1.0
5	2.20	4	6553	99.7	14	41.00	389	4403	67.0	23	770.0	206	1498	22.8	32	14000	18	25	.3
6	3.00	3	6549	99.6	15	57.00	378	4014	61.1	24	1100.0	213	1292	19.7	33	20000	6	7	.1
7	4.20	23	6546	99.6	16	79.00	387	3636	55.3	25	1500.0	163	1079	16.4	34	28000	1	1	.0
8	5.00	54	6518	99.1	17	110.00	311	3249	49.4	26	2000.0	194	916	13.9					

## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## CANEY RIVER NEAR UCHELATA, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1957	0.60 1	0.63 1	0.73 1	0.97 1	1.22 1	1.78 1	2.86 1	5.18 1	5.96 1	11.40 1
1958	14.00 11	14.70 11	15.90 11	17.90 11	22.40 13	28.70 9	32.80 5	34.50 5	37.10 5	2070.00 16
1959	13.00 8	13.00 8	14.00 9	15.30 7	18.20 7	19.30 5	19.30 4	20.40 4	32.70 4	429.00 6
1960	14.00 12	16.70 14	18.40 15	19.20 14	25.60 14	476.00 18	564.00 17	696.00 17	1480.00 17	1750.00 15
1961	8.10 3	8.33 3	9.21 3	12.30 5	17.60 6	28.60 8	56.30 9	76.20 7	97.30 8	380.00 5
1962	22.00 18	23.30 17	27.10 17	37.80 17	266.00 18	406.00 17	572.00 18	867.00 18	1890.00 18	2590.00 18
1963	13.00 9	13.00 9	13.40 7	15.40 8	18.60 8	26.40 7	50.80 7	110.00 10	212.00 10	276.00 4
1964	6.30 2	6.67 2	7.30 2	7.99 2	10.80 2	14.10 3	14.70 3	15.10 2	16.60 2	34.20 2
1965	8.70 4	10.20 5	11.30 4	11.80 4	13.50 4	30.70 11	90.60 12	103.00 8	227.00 11	450.00 8
1966	11.00 6	12.00 6	12.60 6	13.80 6	17.60 5	19.20 4	35.80 6	36.10 6	96.90 7	688.00 10
1967	9.40 5	9.93 4	11.30 5	11.60 3	12.70 3	13.60 2	13.70 2	15.30 3	19.50 3	176.00 3
1968	14.00 10	14.00 10	14.60 10	16.60 10	21.60 11	127.00 15	177.00 14	183.00 13	252.00 12	566.00 9
1969	18.00 16	19.70 16	33.10 18	46.40 18	57.50 17	252.00 16	295.00 16	357.00 16	581.00 15	966.00 12
1970	12.00 7	15.00 7	15.90 8	16.50 9	18.90 9	30.30 10	83.30 11	115.00 11	379.00 14	1090.00 13
1971	16.00 13	17.30 15	18.00 14	19.00 13	21.20 10	25.70 6	51.60 8	105.00 9	62.20 6	798.00 11
1972	16.00 14	16.30 12	17.00 12	18.70 12	22.40 12	42.50 12	101.00 13	128.00 12	148.00 9	446.00 7
1973	16.00 15	16.30 13	17.30 13	21.90 15	29.00 16	66.30 14	181.00 15	202.00 14	291.00 13	1520.00 14
1974	22.00 17	23.70 18	24.10 16	25.10 16	28.60 15	52.50 13	78.10 10	260.00 15	594.00 16	2150.00 17

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## CANEY RIVER NEAR UCHELATA, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1957	28700.0 1	21200.0 3	16000.0 2	12700.0 1	10800.0 1	9010.0 1	7090.0 1	5370.0 1	3530.0 2	1780.0 3
1958	7390.0 14	6750.0 13	5850.0 11	5510.0 11	4750.0 9	3260.0 9	2360.0 10	1790.0 10	1370.0 11	711.0 11
1959	23100.0 4	17600.0 4	12800.0 4	9970.0 4	7220.0 4	3730.0 6	3040.0 7	2400.0 7	1630.0 8	836.0 10
1960	15200.0 7	14800.0 6	11300.0 5	8370.0 5	6540.0 6	3460.0 8	2550.0 9	2080.0 9	1880.0 6	1210.0 6
1961	25800.0 3	21900.0 2	15400.0 3	10500.0 3	8690.0 2	6460.0 2	4730.0 3	3630.0 4	3310.0 3	1760.0 4
1962	9340.0 12	7850.0 11	6430.0 10	6200.0 8	5300.0 7	3840.0 5	3150.0 6	2520.0 6	1850.0 7	1070.0 7
1963	2890.0 18	2630.0 17	1810.0 17	1030.0 17	641.0 17	379.0 17	429.0 16	350.0 16	271.0 17	160.0 17
1964	6280.0 15	5140.0 16	3600.0 16	1890.0 16	1040.0 16	546.0 16	412.0 17	344.0 17	300.0 16	159.0 18
1965	12900.0 9	12000.0 8	9680.0 7	7980.0 6	4460.0 10	2650.0 11	2140.0 11	1740.0 11	1410.0 10	938.0 8
1966	5620.0 16	5480.0 15	4930.0 13	3300.0 13	1720.0 15	949.0 15	646.0 15	573.0 15	400.0 15	214.0 15
1967	8030.0 13	5790.0 14	4400.0 15	2600.0 15	1960.0 14	1470.0 13	1160.0 14	917.0 14	646.0 14	334.0 14
1968	9580.0 11	6980.0 12	4410.0 14	2770.0 14	2380.0 13	1480.0 12	1490.0 12	1260.0 12	949.0 12	603.0 12
1969	13200.0 8	11500.0 9	8070.0 8	6160.0 9	5160.0 8	3550.0 7	3160.0 5	3010.0 5	2300.0 5	1490.0 5
1970	15700.0 6	12300.0 7	7560.0 9	5690.0 10	4250.0 11	3240.0 10	2800.0 8	2170.0 8	1450.0 9	899.0 9
1971	3700.0 17	2280.0 18	1220.0 18	837.0 18	514.0 18	369.0 18	311.0 18	243.0 18	209.0 18	179.0 16
1972	12700.0 10	10300.0 10	5630.0 12	3890.0 12	2610.0 12	1440.0 14	1370.0 13	1070.0 13	745.0 13	532.0 13
1973	17400.0 5	15500.0 5	10100.0 6	7000.0 7	6930.0 5	5900.0 3	5210.0 2	4540.0 2	3720.0 1	2240.0 1
1974	27600.0 2	24900.0 1	17000.0 1	10900.0 2	7810.0 3	4620.0 4	3910.0 4	3640.0 3	2850.0 4	1940.0 2

## ARKANSAS RIVER BASIN

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07175500 CANEY RIVER NEAR RAMONA, OKLA.

LOCATION.--Lat 36°30'31", long 95°50'36", in NE 1/4 NW 1/4 sec.5, T.23 N., R.14 E., Washington County, near left bank on downstream side of pier of county road bridge, 1 mi (1.6 km) upstream from Buck Creek, 2.2 mi (3.5 km) downstream from Double Creek, 4.5 mi (7.2 km) southeast of Ramona, and at mile 32.0 (51.5 km).

DRAINAGE AREA.--1,955 mi<sup>2</sup> (5,063 km<sup>2</sup>).

PERIOD OF RECORD.--October 1935 to February 1939, September 1945 to September 1974. Statistical summaries for this station are divided into unregulated and regulated periods.

AVERAGE DISCHARGE.--8 years (1936-38, 1946-50), 955 ft<sup>3</sup>/s (27.0 m<sup>3</sup>/s); 24 years (1951-74), 921 ft<sup>3</sup>/s (26.1 m<sup>3</sup>/s).

REMARKS.--Some regulation since February 1950 by Hulah Lake in Oklahoma.

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

## CANEY RIVER NEAR RAMONA, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS
1936	39	8		3	2	2	5	1	6	8	32	13	26	26	20	13	23	22	12	9	37	3	36	4	1	7	2	3	2	1					156576.0
1937		1				1	1			1	14	12	9	5	19	20	27	52	55	37	28	17	11	7	13	6	7	7	5	3	3	4			307298.0
1938										23	22	14	63	18	26	12	17	11	13	10	17	15	14	11	9	16	9	7	10	7	7	4	10		320044.0
1946	8	4	3	4	5	12	4	7	6	4	11	22	6	4	45	23	23	24	38	21	20	21	12	10	6	6	3	5	2	1		1	2	2	340426.8
1947		1	6	6	10	7	15	13	9	42	22	41	26	15	12	13	14	9	13	10	10	14	9	6	8	4	7	8	11	2	2				303153.2
1948			2	18	13	21	52	37	12	16	9	12	16	13	14	10	12	15	14	11	8	10	3	6	3	2	3	7	8	11	8				411614.9
1949									9	10	15	11	20	21	21	18	10	15	15	15	17	13	31	30	19	20	14	14	15	10	2				449708.1
1950														8	32	24	42	51	46	32	16	17	17	10	12	9	12	2	9	12	7	6	1	500797.0	

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	39	2922	100.0	9	8.60	58	2557	87.5	18	170.0	203	1297	44.4	27	3500	45	219	7.4					
1	0.60	8	2883	98.7	10	12.00	162	2499	85.5	19	240.0	176	1094	37.4	28	4900	59	174	5.9					
2	0.80	14	2875	98.4	11	17.00	115	2337	80.0	20	340.0	126	918	31.4	29	6800	52	115	3.9					
3	1.20	11	2861	97.9	12	23.00	143	2222	76.0	21	470.0	133	792	27.1	30	9500	37	63	2.1					
4	1.60	31	2850	97.5	13	33.00	120	2079	71.1	22	660.0	116	659	22.6	31	13000	20	26	.8					
5	2.30	30	2819	96.5	14	46.00	147	1959	67.0	23	920.0	123	543	18.6	32	19000	2	6	.2					
6	3.20	43	2789	95.4	15	64.00	164	1812	62.0	24	1300.0	79	420	14.4	33	26000	2	4	.1					
7	4.40	100	2746	94.0	16	89.00	151	1648	56.4	25	1800.0	60	341	11.7	34	36000	2	2	.0					
8	6.20	89	2646	90.6	17	120.00	200	1497	51.2	26	2500.0	62	281	9.6										

## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## CANEY RIVER NEAR RAMONA, OKLAHOMA

YEAR	1		3		7		14		30		60		90		120		183		ANNUAL
1937	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	1.08	1	63.90	5	269.00	6	443.00	5	710.00
1938	1.00	3	5.33	4	6.00	4	6.86	4	8.93	4	10.70	4	13.40	2	14.10	2	73.60	2	502.00
1947	0.60	2	0.63	2	0.66	2	0.89	2	2.10	2	5.66	3	17.30	3	28.30	3	75.70	3	140.00
1948	1.20	4	1.57	3	1.74	3	1.75	3	2.14	3	3.14	2	3.94	1	4.69	1	6.17	1	802.00
1949	6.90	5	7.80	5	8.03	5	8.64	5	10.90	5	30.60	5	63.80	4	59.30	4	651.00	6	1710.00
1950	12.00	6	12.70	6	14.10	6	17.00	6	41.50	6	73.20	6	123.00	6	143.00	5	198.00	4	715.00

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## CANEY RIVER NEAR RAMONA, OKLAHOMA

YEAR	1		3		7		15		30		60		90		120		183		ANNUAL
1936	9600.0	8	7530.0	8	3530.0	8	2310.0	8	1180.0	8	937.0	8	739.0	8	596.0	8	443.0	8	428.0
1937	18000.0	3	16700.0	3	14300.0	2	6970.0	5	4070.0	7	2110.0	7	1450.0	7	1350.0	7	1010.0	7	862.0
1938	12700.0	6	12100.0	6	10200.0	6	6480.0	6	5020.0	5	3250.0	5	3170.0	3	2460.0	3	1720.0	4	877.0
1946	37300.0	1	33900.0	1	23600.0	1	11400.0	1	5830.0	3	2980.0	6	2010.0	6	1980.0	6	1710.0	5	933.0
1947	16800.0	5	14400.0	5	10900.0	5	7370.0	4	5490.0	4	4340.0	3	3080.0	4	2370.0	4	1570.0	6	831.0
1948	17600.0	4	16200.0	4	13900.0	3	9690.0	3	8140.0	2	5700.0	1	3870.0	2	3270.0	2	2240.0	3	1120.0
1949	9420.0	7	9400.0	7	7800.0	7	5400.0	7	4690.0	6	3370.0	4	2670.0	5	2350.0	5	2260.0	2	1230.0
1950	21800.0	2	18700.0	2	13700.0	4	10900.0	2	8210.0	1	5050.0	2	4190.0	1	3610.0	1	2540.0	1	1370.0



CANEY RIVER NEAR RAMONA, OKLAHOMA

[illegible]

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## CANEY RIVER NEAR RAMONA, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1951	23.00 22	24.30 22	26.40 21	28.60 21	33.50 21	38.80 16	43.40 11	47.40 11	186.00 14	1370.00 18
1952	49.00 24	51.70 24	59.10 24	66.40 24	110.00 23	437.00 22	598.00 22	1150.00 24	1040.00 22	1720.00 20
1953	3.30 3	3.50 3	4.54 4	6.06 5	7.31 5	10.50 4	12.40 4	12.50 3	13.40 2	229.00 5
1954	2.40 2	2.70 2	3.33 2	4.70 2	6.76 3	11.50 5	13.40 5	17.30 6	23.20 5	177.00 3
1955	4.30 5	4.37 5	4.53 3	5.57 4	7.04 4	9.45 3	13.40 6	35.20 8	88.90 8	313.00 6
1956	4.00 4	4.17 4	4.66 5	5.48 3	5.91 2	7.93 2	9.32 2	10.10 2	106.00 9	375.00 8
1957	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.03 1	0.86 1	3.37 1	5.85 1	13.10 1
1958	12.00 13	12.30 13	14.00 14	14.10 13	24.10 16	31.60 12	36.80 9	39.90 10	42.60 7	2350.00 22
1959	11.00 11	11.00 10	11.40 10	12.90 9	16.80 10	19.50 9	22.60 8	23.00 7	36.60 6	462.00 10
1960	14.00 17	14.30 17	14.70 15	16.90 16	26.00 18	579.00 23	666.00 24	781.00 22	1650.00 23	1910.00 21
1961	8.70 9	9.40 9	9.89 8	13.60 10	20.00 13	33.60 13	58.00 12	86.80 12	107.00 10	457.00 9
1962	40.00 23	41.00 23	48.40 23	61.60 23	323.00 24	594.00 24	644.00 23	983.00 23	2020.00 24	2870.00 24
1963	11.40 10	11.70 11	12.10 11	15.30 12	21.30 15	30.00 11	71.80 14	142.00 15	260.00 16	339.00 7
1964	5.70 6	5.70 6	5.83 6	7.65 6	9.77 6	12.90 7	14.30 7	14.80 5	15.90 3	38.50 2
1965	7.00 7	8.00 7	10.70 9	10.80 8	16.60 9	34.80 14	91.60 15	101.00 13	245.00 15	501.00 11
1966	12.00 12	12.00 12	12.30 12	13.60 11	15.40 8	18.20 8	38.70 10	38.70 9	109.00 11	774.00 14
1967	7.30 8	8.37 8	9.16 7	10.00 7	11.50 7	11.90 6	12.30 3	14.40 4	18.10 4	180.00 4
1968	13.00 14	13.70 14	14.00 13	16.50 14	20.80 14	156.00 20	232.00 20	254.00 19	299.00 17	681.00 13
1969	16.00 18	17.70 19	32.90 22	47.90 22	62.40 22	304.00 21	324.00 21	391.00 21	629.00 20	1090.00 16
1970	20.00 21	20.00 21	20.00 20	20.60 19	25.00 17	36.50 15	97.10 16	131.00 14	454.00 19	1240.00 17
1971	14.00 15	14.00 15	14.90 16	17.30 17	19.30 11	22.00 10	63.10 13	146.00 16	110.00 12	899.00 15
1972	14.00 16	14.30 16	15.10 17	16.70 15	19.40 12	48.10 17	124.00 18	146.00 17	175.00 13	536.00 12
1973	16.00 19	16.00 18	17.30 18	19.40 18	28.80 19	79.40 19	203.00 19	223.00 18	322.00 18	1700.00 19
1974	17.00 20	18.30 20	19.70 19	22.60 20	32.20 20	70.70 18	99.20 17	328.00 20	718.00 21	2440.00 23

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## CANEY RIVER NEAR RAMONA, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1951	15400.0 6	14100.0 7	11800.0 6	9010.0 6	6600.0 7	4040.0 6	3450.0 6	2740.0 6	2040.0 7	1110.0 8
1952	7870.0 17	6750.0 16	5470.0 17	4560.0 14	3090.0 15	2390.0 13	1800.0 14	1520.0 14	1590.0 11	911.0 12
1953	5030.0 21	3890.0 21	2760.0 21	1920.0 21	1260.0 20	789.0 20	588.0 20	470.0 20	336.0 21	182.0 22
1954	9200.0 15	8520.0 13	6830.0 12	4210.0 16	2200.0 17	1350.0 18	907.0 18	686.0 18	454.0 18	239.0 18
1955	8500.0 16	8070.0 15	6090.0 16	4720.0 13	3270.0 13	1880.0 15	1330.0 16	1040.0 16	722.0 16	408.0 16
1956	2480.0 24	2370.0 24	2040.0 23	1160.0 23	593.0 24	300.0 24	203.0 24	155.0 24	106.0 24	59.3 24
1957	27400.0 2	26200.0 2	19600.0 1	15300.0 1	12400.0 1	10300.0 1	8100.0 1	6150.0 1	4050.0 2	2030.0 3
1958	7150.0 19	6660.0 17	6140.0 15	5640.0 12	4970.0 11	3450.0 11	2520.0 11	1910.0 12	1450.0 13	757.0 13
1959	21000.0 4	18800.0 4	14300.0 4	10900.0 4	7740.0 5	4000.0 8	3290.0 8	2610.0 8	1770.0 9	913.0 11
1960	15400.0 7	15000.0 5	13000.0 5	9380.0 5	7180.0 5	3800.0 9	2840.0 10	2310.0 10	2070.0 6	1370.0 6
1961	22800.0 3	21800.0 3	16800.0 3	11500.0 3	9220.0 2	6810.0 2	4980.0 3	3940.0 3	3740.0 3	1990.0 4
1962	9500.0 13	8390.0 14	6720.0 13	6350.0 10	5490.0 9	4010.0 7	3340.0 7	2670.0 7	1990.0 8	1170.0 7
1963	3340.0 23	3030.0 22	2150.0 22	1200.0 22	764.0 22	454.0 23	508.0 21	418.0 21	326.0 22	192.0 21
1964	7860.0 18	5740.0 19	3960.0 20	2090.0 20	1150.0 21	598.0 21	446.0 22	369.0 22	344.0 20	181.0 23
1965	13800.0 10	13100.0 10	11100.0 8	8980.0 7	5010.0 10	3000.0 12	2390.0 12	1940.0 11	1580.0 12	1050.0 9
1966	5770.0 20	5600.0 20	4980.0 18	3360.0 18	1760.0 19	973.0 19	666.0 19	595.0 19	418.0 19	225.0 20
1967	9400.0 14	5750.0 18	4190.0 19	2580.0 19	2040.0 18	1580.0 17	1250.0 17	1020.0 17	720.0 17	370.0 17
1968	11700.0 11	8880.0 12	6140.0 14	3650.0 17	3000.0 16	1980.0 14	1860.0 13	1560.0 13	1160.0 14	746.0 14
1969	14900.0 8	13500.0 8	10200.0 9	7180.0 9	6150.0 8	4110.0 5	3570.0 5	3380.0 5	2580.0 5	1660.0 5
1970	14800.0 9	13100.0 9	8590.0 10	6150.0 11	4570.0 12	3470.0 10	3060.0 9	2390.0 9	1600.0 10	1010.0 10
1971	4870.0 22	2670.0 23	1400.0 24	1050.0 24	660.0 23	478.0 22	406.0 23	316.0 23	277.0 23	226.0 19
1972	11600.0 12	10900.0 11	6830.0 11	4460.0 15	3090.0 14	1710.0 16	1650.0 15	1300.0 15	901.0 15	627.0 15
1973	15600.0 5	14100.0 6	11200.0 7	7850.0 8	7770.0 4	6700.0 3	5870.0 2	5060.0 2	4140.0 1	2540.0 1
1974	30700.0 1	26600.0 1	19400.0 2	12400.0 2	8650.0 3	5090.0 4	4160.0 4	3920.0 4	3110.0 4	2130.0 2

## ARKANSAS RIVER BASIN

07176000 VERDIGRIS RIVER NEAR CLAREMORE, OKLA.

LOCATION.--Lat 36°18'26", long 95°41'52", in SE 1/4 SW 1/4 sec.10, T.21 N., R.15 E., Rogers County, near left bank on downstream side of pier of bridge on State Highway 20, 2.3 mi (3.7 km) downstream from Caney River, 4.5 mi (7.2 km) west of Claremore, 12.4 mi (20.0 km) upstream from Bird Creek, and at mile 76.0 \*122.3 km).

DRAINAGE AREA. -- 6,534 mi<sup>2</sup> (16,923 km<sup>2</sup>).

PERIOD OF RECORD.--October 1935 to September 1974. Statistical summaries for this station are divided into unregulated and regulated periods.

AVERAGE DISCHARGE.--28 years (1936-63), 3,627 ft<sup>3</sup>/s (103.0 m<sup>3</sup>/s); 11 years (1964-74), 3,698 ft<sup>3</sup>/s (105 m<sup>3</sup>/s).

REMARKS.--Flow regulated since May 1963 by Oologah Lake in Oklahoma 14.3 mi (23.0 km) upstream; some regulation by dams in Kansas since 1949 and by Hulah Lake in Oklahoma since 1950.

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

VERDIGRIS RIVER NEAR CLAREMORE, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34		
NUMBER OF DAYS IN CLASS																																			CFS_DAYS		
1936	49					5		1	2	3	1	3	4	5	11	25	27	36	13	30	22	49	15	7	6	39	7	3	3							574364.0	
1937														1	1	7	19	18	28	26	52	43	35	35	25	17	16	18	6	11	5					1126956.0	
1938													10	20	39	55	23	18	23	13	18	22	24	19	19	12	8	10	11	10	11					1144618.0	
1939	22					5		2	2	12	10	29	48	60	44	22	11	10	9	13	17	12	9	9	5	7	4	3								237333.0	
1940	100				2		6	32	21	9	7	9	14	5	9	12	17	15	9	22	18	13	11	8	11	9	7										256677.1
1941						5	5	11	4	4	6	3	4	4	9	10	11	11	18	42	53	46	28	16	18	19	11	7	11	13							1394556.7
1942																		1	11	12	23	51	70	47	26	26	19	24	21	27	7					3058951.0	
1943															7	18	18	3	10	11	15	39	81	57	23	19	16	12	6	12	4	7	2	4	1		2519871.0
1944															3	16	27	27	27	26	46	32	38	27	18	11	7	15	10	5						1682967.0	
1945															6	7	8	5	14	23	29	50	54	31	22	22	14	16	12	28	18	5	1			2406712.0	
1946							6	4	5	12	12	4	8	13	16	13	49	34	14	53	38	24	18	14	7	8	2	3	5	1							1167881.6
1947								4	6	7	11	25	47	17	44	28	22	27	22	16	15	13	9	13	9	19	10	1									1388008.9
1948								3	11	7	10	18	17	69	22	38	20	13	22	30	16	8	7	5	11	7	11	14	7								1597999.4
1949													28	4	37	33	16	21	12	18	20	35	36	29	29	22	21									1815406.0	
1950																1	46	44	69	41	34	24	21	19	16	15	12	19	4							1306674.0	
1951															6	45	63	11	9	27	34	18	26	20	35	22	18	12	11	7	1					2160482.0	
1952													3	12	8	7	26	28	14	7	3	4	18	56	30	31	22	26	9	6						1095258.9	
1953											1	26	16	28	32	78	33	28	17	13	17	19	12	13	9	11	6	3	3							173501.5	
1954							2	8	3	21	14	16	32	40	73	44	27	12	9	10	11	11	10	4	5	2	1	1	2	3						257603.7	
1955							1	1	1	10	5	28	52	20	15	24	36	33	27	30	10	12	18	13	11	7	7	1	3							375909.4	
1956	43	1		1	1	1	2	1	2	23	39	67	33	39	18	26	16	9	10	10	7	5	4	1	2	3	1	1							91184.9		
1957	50						1	6	12	27	20	19	34	22	14	11	18	15	8	6	7	5	8	9	18	9	18	23	5							2038811.8	
1958													4	11	10	29	51	56	34	36	34	19	14	15	14	14	23	1								1272682.0	
1959													6	22	10	60	41	58	27	35	34	19	10	17	8	5	2	11								1020725.0	
1960															5	13	7	20	16	21	23	28	71	34	27	37	25	15	12	5	7					1932739.0	
1961															5	4	4	14	30	46	38	22	16	25	23	37	34	16	27	18	2	3	1			2901268.0	
1962															7	9	7	21	12	13	13	21	46	54	29	21	33	38	24	17					1711791.0		
1963													3	27	47	26	20	7	2	11	32	61	49	24	15	15	4	14	6	2						370991.4	
CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT			
0	0.00	264	10227	100.0	9	4.60	114	9810	95.9	18	240.0	598	6397	62.6	27	13000	252	825	8.0	27	13000	252	825	8.0	27	13000	252	825	8.0	27	13000	252	825	8.0			
1	0.10	1	9963	97.4	10	7.10	138	9696	94.8	19	370.0	771	5799	56.7	28	19000	305	573	5.6	28	19000	305	573	5.6	28	19000	305	573	5.6	28	19000	305	573	5.6			
2	0.20	0	9962	97.4	11	11.00	300	9558	93.5	20	580.0	734	5028	49.2	29	30000	195	268	2.6	29	30000	195	268	2.6	29	30000	195	268	2.6	29	30000	195	268	2.6			
3	0.30	1	9962	97.4	12	17.00	352	9258	90.5	21	890.0	881	4294	42.0	30	47000	58	73	.7	30	47000	58	73	.7	30	47000	58	73	.7	30	47000	58	73	.7			
4	0.50	3	9961	97.4	13	27.00	432	8906	87.1	22	1400.0	737	3413	33.4	31	73000	9	15	.1	31	73000	9	15	.1	31	73000	9	15	.1	31	73000	9	15	.1			
5	0.80	13	9958	97.4	14	41.00	473	8474	82.9	23	2200.0	558	2676	26.2	32	110000	5	6	.0	32	110000	5	6	.0	32	110000	5	6	.0	32	110000	5	6	.0			
6	1.20	22	9945	97.2	15	64.00	522	8001	78.2	24	3300.0	428	2118	20.7	33	180000	1	1		33	180000	1	1		33	180000	1	1		33	180000	1	1				
7	1.40	45	9923	97.0	16	99.00	440	7479	73.1	25	5200.0	472	1690	16.5	34						34																
8	2.90	68	9878	96.6	17	150.00	642	7039	68.8	26	8100.0	393	1218	11.9																							

## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## VERDIGRIS RIVER NEAR CLAREMORE, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1937	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.58 3	202.00 13	716.00 19	1430.00 18	2300.00 12
1938	14.00 12	14.70 12	15.30 12	17.40 12	21.00 11	29.40 9	36.00 8	40.00 6	262.00 7	1910.00 9
1939	5.00 8	5.00 8	5.29 8	7.14 9	11.60 9	26.00 8	25.40 6	28.50 5	37.40 4	2750.00 14
1940	0.00 2	0.00 2	0.00 2	0.00 2	0.00 2	0.00 1	0.00 1	0.04 1	2.66 1	624.00 3
1941	0.70 4	1.53 5	1.84 5	2.39 5	4.10 4	218.00 16	526.00 18	707.00 18	877.00 16	1710.00 8
1942	57.00 21	58.30 21	60.90 21	81.30 21	114.00 20	353.00 23	2290.00 26	2540.00 24	5600.00 26	7080.00 25
1943	229.00 25	276.00 25	374.00 25	692.00 25	1040.00 25	1480.00 24	2090.00 24	2420.00 23	2680.00 22	5430.00 18
1944	28.00 13	29.30 13	32.30 13	41.30 13	56.40 14	105.00 12	373.00 15	571.00 16	572.00 13	6720.00 23
1945	32.00 15	33.00 14	43.40 17	75.90 20	167.00 22	339.00 21	655.00 20	1280.00 21	2670.00 21	6250.00 20
1946	36.00 17	36.70 17	38.90 16	65.40 17	88.00 18	236.00 18	1290.00 22	2290.00 22	4490.00 24	6550.00 22
1947	3.20 6	3.33 6	3.83 6	5.47 7	10.50 8	33.10 11	89.80 10	106.00 10	435.00 11	884.00 6
1948	6.50 11	6.63 11	7.39 10	7.96 10	24.30 12	31.70 10	84.20 9	80.50 8	106.00 6	3690.00 17
1949	49.00 19	50.30 19	50.90 18	52.40 16	55.60 13	108.00 13	442.00 16	369.00 14	2660.00 20	6350.00 21
1950	103.00 24	110.00 24	123.00 24	144.00 23	184.00 23	277.00 20	475.00 17	560.00 15	721.00 14	3030.00 15
1951	91.00 22	93.70 22	95.60 22	103.00 22	130.00 21	144.00 14	149.00 11	159.00 11	826.00 15	3630.00 16
1952	460.00 27	515.00 27	760.00 27	1070.00 27	1560.00 26	1950.00 26	2030.00 23	3660.00 26	4240.00 23	7760.00 26
1953	4.20 7	4.60 7	5.06 7	5.26 6	5.90 6	10.50 4	18.90 5	23.50 4	28.90 3	786.00 4
1954	5.40 10	5.53 10	7.49 11	12.60 11	14.80 10	22.80 7	33.70 7	50.60 7	56.50 5	448.00 2
1955	1.00 5	1.07 4	1.23 4	1.59 4	4.63 5	11.00 6	14.20 4	94.30 9	324.00 8	1000.00 7
1956	5.30 9	5.30 9	5.47 9	5.89 8	8.88 7	10.50 5	11.40 3	13.70 3	337.00 9	868.00 5
1957	0.00 3	0.00 3	0.00 3	0.00 3	0.00 3	0.00 2	0.00 2	1.56 2	8.44 2	114.00 1
1958	31.00 14	33.70 15	37.00 14	48.40 15	106.00 19	162.00 15	175.00 12	267.00 12	356.00 10	7080.00 24
1959	56.00 20	58.00 20	59.60 20	65.90 18	74.60 16	223.00 17	281.00 14	276.00 13	443.00 12	2220.00 11
1960	97.00 23	102.00 23	121.00 23	190.00 24	577.00 24	1780.00 25	2120.00 25	2550.00 25	5060.00 25	6120.00 19
1961	44.00 18	45.30 18	56.40 19	67.80 19	80.10 17	353.00 22	691.00 21	635.00 17	1110.00 17	2640.00 13
1962	388.00 26	398.00 26	490.00 26	714.00 26	1630.00 27	3140.00 27	3010.00 27	4440.00 27	7460.00 27	10700.00 27
1963	35.00 16	36.30 16	38.90 15	42.50 14	74.50 15	260.00 19	557.00 19	924.00 20	1910.00 19	1940.00 10

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## VERDIGRIS RIVER NEAR CLAREMORE, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1936	26600.0 22	21800.0 23	11000.0 23	7730.0 23	5720.0 23	4100.0 21	3060.0 21	2480.0 21	1700.0 23	1570.0 21
1937	38700.0 15	38000.0 15	31700.0 15	16400.0 19	10100.0 19	6050.0 20	4640.0 20	4180.0 20	3540.0 20	3090.0 18
1938	39900.0 14	39400.0 14	37800.0 14	29600.0 13	21200.0 11	12600.0 13	11300.0 11	8720.0 13	6110.0 15	3140.0 17
1939	18800.0 24	14800.0 25	8140.0 25	6870.0 24	4560.0 24	3120.0 24	2440.0 24	1910.0 24	1270.0 26	650.0 26
1940	11000.0 28	8340.0 28	4330.0 28	3780.0 28	2500.0 27	2240.0 25	1740.0 26	1540.0 26	1400.0 24	701.0 25
1941	46200.0 13	45000.0 12	38900.0 13	23600.0 14	13000.0 18	11700.0 16	8840.0 16	6800.0 17	5780.0 16	3820.0 12
1942	64200.0 8	61800.0 7	53300.0 7	39900.0 6	30600.0 6	20800.0 6	14800.0 7	11400.0 8	8530.0 8	8380.0 1
1943	181000.0 1	175000.0 1	138000.0 1	91800.0 1	56500.0 1	32900.0 1	22200.0 1	17200.0 1	12200.0 2	6900.0 3
1944	82800.0 3	75300.0 3	60500.0 4	36500.0 9	32100.0 5	20700.0 7	15000.0 5	11900.0 7	8150.0 9	4600.0 10
1945	80200.0 4	69900.0 4	56700.0 6	40000.0 5	26600.0 8	20500.0 8	14700.0 8	12700.0 5	9030.0 5	6590.0 4
1946	73000.0 6	69700.0 5	62200.0 3	33700.0 10	17400.0 16	8950.0 18	6070.0 19	6370.0 18	5510.0 17	3200.0 16
1947	52000.0 11	45600.0 11	39000.0 12	30300.0 12	23500.0 10	17800.0 9	13300.0 9	10600.0 9	7060.0 12	3800.0 13
1948	60000.0 9	57000.0 10	49400.0 9	39100.0 7	28000.0 7	21800.0 5	14900.0 6	12100.0 6	8620.0 7	4370.0 11
1949	30300.0 19	29800.0 18	26400.0 17	20400.0 18	16400.0 17	12200.0 14	10000.0 13	8820.0 12	9000.0 6	4970.0 8
1950	36300.0 16	34900.0 16	29800.0 16	22800.0 16	19000.0 14	11700.0 15	10200.0 12	8960.0 11	6420.0 13	3580.0 14
1951	73500.0 5	68200.0 6	58700.0 5	45500.0 3	37800.0 3	23000.0 4	17800.0 4	14400.0 4	11000.0 4	5920.0 5
1952	27300.0 21	25700.0 21	19300.0 21	14100.0 20	9860.0 20	8090.0 19	6130.0 18	5170.0 19	5190.0 18	2990.0 19
1953	12400.0 27	9300.0 27	6190.0 27	4420.0 26	3410.0 26	2140.0 26	1610.0 27	1290.0 27	882.0 27	475.0 27
1954	32600.0 17	31900.0 17	24200.0 20	13500.0 21	7020.0 21	4060.0 23	2720.0 23	2050.0 23	1360.0 25	706.0 24
1955	25600.0 23	23700.0 22	15600.0 22	10000.0 22	6480.0 22	4070.0 22	2760.0 22	2370.0 22	1720.0 22	1030.0 22
1956	13000.0 26	10500.0 26	7290.0 26	3880.0 27	1960.0 28	998.0 28	669.0 28	505.0 28	337.0 28	249.0 28
1957	66800.0 7	60300.0 8	49400.0 10	36600.0 8	36800.0 4	28400.0 2	21800.0 2	16800.0 2	11100.0 3	5590.0 6
1958	30500.0 18	29600.0 19	26100.0 18	23600.0 15	20300.0 12	12900.0 12	9400.0 15	7370.0 15	6340.0 14	3490.0 15
1959	46500.0 12	44900.0 13	41900.0 11	33100.0 11	19400.0 13	10400.0 17	8560.0 17	6990.0 16	5080.0 19	2800.0 20
1960	59500.0 10	57700.0 9	53200.0 8	40500.0 4	25200.0 9	13300.0 10	9680.0 14	7930.0 14	7180.0 11	5280.0 7
1961	111000.0 2	101000.0 2	75200.0 2	51800.0 2	39000.0 2	24800.0 3	18900.0 3	14900.0 3	14000.0 1	7950.0 2
1962	27800.0 20	27700.0 20	25700.0 19	20600.0 17	17900.0 15	13200.0 11	11400.0 10	9080.0 10	7370.0 10	4690.0 9
1963	17000.0 25	15000.0 24	10700.0 24	6130.0 25	3440.0 25	2040.0 27	2190.0 25	1880.0 25	1880.0 21	1020.0 23

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

VERDIGRIS RIVER NEAR CLAREMORE, OKLAHOMA

CLASS 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34

YEAR	NUMBER OF DAYS IN CLASS																																CFS_DAYS	
1964	2	4	2	1	5	16	41	69	27	24	21	18	17	10	13	8	6	5	11	13	13	5	3	4	8	6	1	2	6	2	3	232346.1		
1965								13	16	17	8	7	15	4	4	1	2	2	4	25	34	32	30	24	23	19	15	12	6	9	18	15	10	1450000.0
1966					3	3	6	15	56	18	24	17	10	4	20	21	15	16	30	20	18	12	14	19	11	5	2	3	2	1			224034.1	
1967					6	8	23	49	34	17	22	12	7	8	4	5	11	9	18	12	13	10	5	13	13	5							580460.4	
1968											4	3	1	10	9	6	18	24	28	38	36	33	22	23	14	39	18	13	6	17	2		1084495.0	
1969								1	3	5	4	4	2	7	2	2	21	5	9	9	9	18	27	18	50	31	26	26	32	16	31	7		2321229.0
1970											19	37	9	10	26	21	9	23	22	16	14	22	12	9	15	10	11	13	18	19	30		1544747.0	
1971							2	5	54	43	55	46	28	7	5	10	9	13	9	12	11	8	6	15	10	12	4	1					416223.0	
1972								11	27	26	29	21	32	34	17	14	40	16	10	11	16	8	21	8	3	6	10	5	1				729816.0	
1973											8	4	25	25	5	2	4	5	6	11	4	22	13	21	36	21	19	23	40	37	34		3222221.0	
1974												4	19	5	13	7	5	2	3	6	14	8	14	13	31	32	55	61	44	8	20	1	3051135.0	

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	4018	100.0	9	19.00	149	3801	94.6	18	280.0	146	2544	63.3	27	4000	211	1078	26.8
1	1.80	2	4018	100.0	10	26.00	98	3652	90.9	19	370.0	141	2398	59.7	28	5400	148	867	21.5
2	2.40	4	4016	100.0	11	35.00	80	3554	88.5	20	500.0	151	2257	56.2	29	7200	168	719	17.8
3	3.30	2	4012	99.9	12	47.00	156	3474	86.5	21	670.0	195	2106	52.4	30	9700	177	551	13.7
4	4.40	1	4010	99.8	13	63.00	176	3318	82.6	22	910.0	161	1911	47.6	31	13000	173	374	9.3
5	5.90	6	4009	99.8	14	85.00	126	3142	78.2	23	1200.0	169	1750	43.6	32	18000	128	201	5.0
6	7.90	25	4001	99.6	15	110.00	191	3016	75.1	24	1600.0	178	1581	39.3	33	24000	72	73	1.8
7	11.00	55	3976	99.0	16	150.00	155	2825	70.3	25	2200.0	155	1403	34.9	34	32000	1	1	.0
8	14.00	120	3921	97.6	17	210.00	126	2670	66.5	26	3000.0	170	1248	31.1					

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

VERDIGRIS RIVER NEAR CLAREMORE, OKLAHOMA

YEAR	1		3		7		14		30		60		90		120		183		ANNUAL
1965	6.20	1	6.83	1	7.73	1	14.20	2	19.20	2	59.00	3	568.00	6	452.00	3	852.00	5	1780.00
1966	13.00	3	13.70	3	15.60	3	17.60	3	19.70	3	23.40	2	80.40	2	138.00	2	431.00	2	3020.00
1967	6.20	2	6.83	2	8.59	2	13.70	1	16.90	1	21.00	1	46.90	1	90.00	1	83.90	1	453.00
1968	16.00	4	20.00	4	26.60	4	42.60	4	506.00	10	887.00	9	1320.00	9	1280.00	8	2190.00	8	2930.00
1969	44.00	7	47.00	7	72.30	9	126.00	10	278.00	9	996.00	10	1640.00	10	1830.00	10	2510.00	9	3960.00
1970	23.00	5	26.00	5	52.90	7	88.60	8	135.00	7	272.00	7	638.00	7	733.00	6	2150.00	7	5140.00
1971	50.00	8	50.00	8	50.60	6	51.90	6	54.20	4	84.50	4	499.00	5	891.00	7	698.00	3	3850.00
1972	28.00	6	33.30	6	37.90	5	50.00	5	65.40	5	95.60	5	323.00	3	627.00	4	724.00	4	1910.00
1973	58.00	9	58.70	9	62.00	8	65.00	7	84.00	6	180.00	6	430.00	4	727.00	5	894.00	6	5410.00
1974	76.00	10	96.70	10	116.00	10	122.00	9	141.00	8	570.00	8	1220.00	8	1380.00	9	4010.00	10	9250.00

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

VERDIGRIS RIVER NEAR CLAREMORE, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL										
1964	15500.0	9	13500.0	9	8510.0	10	5470.0	10	3190.0	10	1810.0	11	1940.0	10	1470.0	10	1250.0	10	635.0	10
1965	28200.0	4	24600.0	4	25600.0	3	23700.0	3	15400.0	5	9000.0	5	9440.0	5	7630.0	5	5620.0	5	3970.0	5
1966	9950.0	11	8970.0	11	7310.0	11	4690.0	11	2850.0	11	2120.0	10	1490.0	11	1380.0	11	1070.0	11	614.0	11
1967	17500.0	8	16700.0	8	14800.0	8	12300.0	7	10100.0	7	6510.0	6	4800.0	8	4140.0	8	3090.0	8	1590.0	8
1968	19700.0	7	17700.0	7	15500.0	7	10200.0	8	8320.0	8	5840.0	8	5700.0	6	4920.0	6	4040.0	6	2960.0	6
1969	29700.0	3	28000.0	3	24700.0	4	21800.0	4	19300.0	3	15800.0	2	13700.0	2	12900.0	2	9690.0	3	6360.0	3
1970	23500.0	6	23200.0	6	22400.0	5	20300.0	5	19300.0	4	13700.0	4	11800.0	4	9290.0	4	6260.0	4	4230.0	4
1971	13900.0	10	12400.0	10	9740.0	9	6310.0	9	4100.0	9	2420.0	9	2500.0	9	1930.0	9	1630.0	9	1140.0	9
1972	24600.0	5	24000.0	5	20700.0	6	16600.0	6	11000.0	6	6020.0	7	5550.0	7	4350.0	7	3090.0	7	1990.0	7
1973	31800.0	2	30500.0	2	29700.0	2	28900.0	2	25200.0	1	20400.0	1	18900.0	1	16800.0	1	14000.0	1	8830.0	1
1974	35400.0	1	30600.0	1	30100.0	1	29300.0	1	24400.0	2	15600.0	3	13300.0	3	12700.0	3	11700.0	2	8360.0	2

## 125

LOCATION.--Lat 36°29'11", long 96°03'45", in NW 1/4 sec.7, T.23 N., R.12 E., Osage County, near left bank on downstream side of pier of county road bridge at Avant, 1.5 mi (2.4 km) upstream from Candy Creek, and at mile 54.2 (87.2 km).

REMARKS.--Small diversions above station for municipal water supply of cities of Pawhuska and Barnsdall.

[illegible]

CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT
0	0.00	1823	10592	100.0	9	0.50	213	8348	78.8	18	26.0	511	3964	37.4	27	1400	92	288	2.7
1	0.01	3	8769	82.8	10	0.70	352	8135	76.8	19	40.0	653	3453	32.6	28	2200	70	196	1.8
2	0.02	4	8766	82.8	11	1.10	392	7763	73.5	20	63.0	7350	288	26.4	29	3507	55	126	1.1
3	0.03	3	8762	82.7	12	1.80	549	7391	69.8	21	98.0	589	2164	20.4	30	5500	46	7	0.0
4	0.05	7	8759	82.7	13	2.80	645	6842	64.6	22	150.0	487	1575	14.9	31	8500	15	25	0.2
5	0.07	0	8752	82.6	14	4.30	469	6377	60.2	23	240.0	281	1088	10.3	32	13000	9	10	0.0
6	0.10	96	8752	82.6	15	6.70	769	5904	55.8	24	370.0	235	807	7.6	33	21000	1	1	0.0
7	0.20	88	8656	81.7	16	11.00	551	5139	48.5	25	580.0	147	572	5.4	34				
8	0.30	220	8568	80.9	17	16.00	624	4588	43.3	26	910.0	137	425	4.0					



## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## BIRD CREEK AT AVANT, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1947	0.00 1	0.00 1	0.00 1	0.00 1	0.48 18	1.00 13	3.44 15	3.69 13	41.70 17	54.50 7
1948	0.00 2	0.00 2	0.00 2	0.00 2	0.00 1	0.11 9	0.50 8	0.64 7	0.91 4	140.00 15
1949	0.00 3	0.00 3	0.00 3	0.00 3	0.00 2	0.17 10	0.47 7	0.66 8	49.40 18	230.00 21
1950	0.40 23	0.53 24	0.56 24	0.79 25	1.99 22	3.54 19	6.05 16	8.29 17	10.90 11	111.00 14
1951	0.60 25	0.63 25	0.67 25	0.69 22	0.72 19	1.12 14	1.90 12	3.20 12	19.30 14	265.00 22
1952	1.80 27	2.10 27	2.27 27	3.54 27	24.30 27	53.10 27	58.90 26	163.00 28	177.00 26	287.00 23
1953	0.00 4	0.00 4	0.00 4	0.00 4	0.00 3	0.00 1	0.00 1	0.00 1	0.00 1	50.50 6
1954	0.00 5	0.00 5	0.00 5	0.00 5	0.00 4	0.46 11	0.81 10	1.62 9	1.93 6	50.30 5
1955	0.00 6	0.00 6	0.00 6	0.00 6	0.00 5	0.00 2	0.00 2	0.01 4	4.76 8	69.10 8
1956	0.00 7	0.00 7	0.00 7	0.00 7	0.00 6	0.00 3	0.00 3	0.01 5	10.10 10	92.90 10
1957	0.00 8	0.00 8	0.00 8	0.00 8	0.00 7	0.00 4	0.00 4	0.00 2	0.00 2	1.38 1
1958	0.60 26	0.70 26	1.19 26	1.38 26	2.00 23	3.90 20	6.82 17	8.07 15	20.80 15	546.00 28
1959	0.00 9	0.00 9	0.00 9	0.00 9	0.00 8	0.56 12	1.30 11	2.10 11	3.57 7	37.20 4
1960	0.00 10	0.00 10	0.00 10	0.00 10	0.02 16	18.40 25	138.00 28	150.00 26	280.00 27	383.00 24
1961	0.00 11	0.00 11	0.00 11	0.00 11	0.00 9	1.64 15	8.88 19	8.11 16	15.50 12	110.00 13
1962	3.20 28	3.33 28	4.43 28	7.72 28	50.00 28	66.50 28	73.10 27	162.00 27	298.00 28	537.00 26
1963	0.00 12	0.00 12	0.00 12	0.09 19	2.83 24	18.10 24	24.60 21	39.70 22	52.20 20	107.00 11
1964	0.00 13	0.00 13	0.00 13	0.00 12	0.00 10	0.00 5	0.00 5	0.00 3	0.21 3	6.76 2
1965	0.00 14	0.00 14	0.00 14	0.00 13	0.00 11	3.43 18	15.70 20	21.90 19	39.30 16	80.40 9
1966	0.00 15	0.00 15	0.00 15	0.00 14	0.00 12	0.00 6	0.54 9	1.97 10	8.27 9	107.00 12
1967	0.00 16	0.00 16	0.00 16	0.00 15	0.00 13	0.00 7	0.01 6	0.29 6	1.45 5	22.80 3
1968	0.00 17	0.00 17	0.00 17	0.08 18	5.55 25	13.80 23	25.50 22	47.20 23	73.20 22	184.00 18
1969	0.00 18	0.00 18	0.00 18	0.00 16	0.00 14	1.85 17	3.40 14	4.76 14	51.90 19	165.00 17
1970	0.00 19	0.00 19	0.00 19	0.10 20	0.28 17	1.68 16	7.27 18	10.20 18	68.30 21	196.00 20
1971	0.00 20	0.00 20	0.00 20	0.00 17	0.00 15	0.00 8	3.04 13	22.70 20	16.20 13	153.00 16
1972	0.00 21	0.07 22	0.24 22	0.79 23	1.92 21	12.20 22	28.20 25	37.80 21	139.00 24	193.00 19
1973	0.00 22	0.03 21	0.21 21	0.43 21	1.43 20	18.70 26	25.60 23	104.00 24	92.80 23	421.00 25
1974	0.46 24	0.47 23	0.55 23	0.79 24	6.68 26	8.03 21	27.10 24	104.00 25	156.00 25	540.00 27

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## BIRD CREEK AT AVANT, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1946	5020.0 22	1920.0 24	1260.0 22	688.0 24	373.0 25	294.0 24	288.0 21	235.0 21	185.0 21	115.0 19
1947	7990.0 14	3420.0 16	2020.0 18	1130.0 19	883.0 15	680.0 9	523.0 13	398.0 13	262.0 15	161.0 15
1948	7790.0 17	4500.0 12	2920.0 8	1470.0 13	1320.0 8	762.0 7	577.0 8	483.0 8	343.0 9	172.0 14
1949	8320.0 13	4900.0 10	2760.0 10	1410.0 15	804.0 17	546.0 15	381.0 17	374.0 15	342.0 10	174.0 12
1950	10100.0 11	4180.0 14	2900.0 9	1600.0 8	1330.0 7	896.0 6	813.0 5	743.0 5	501.0 5	257.0 6
1951	7450.0 15	4480.0 13	2010.0 19	1590.0 9	1160.0 9	653.0 13	563.0 10	435.0 9	351.0 8	189.0 9
1952	5310.0 20	2430.0 22	1190.0 23	890.0 21	624.0 21	461.0 18	372.0 18	296.0 18	261.0 16	155.0 16
1953	7910.0 16	2970.0 20	1570.0 20	810.0 22	460.0 23	264.0 25	201.0 25	159.0 25	106.0 25	55.6 25
1954	9220.0 12	5580.0 9	2500.0 12	1180.0 18	626.0 20	335.0 23	225.0 24	169.0 24	111.0 24	56.5 24
1955	4960.0 23	3350.0 17	2450.0 13	1480.0 12	977.0 11	524.0 17	382.0 16	298.0 17	198.0 19	102.0 20
1956	814.0 29	464.0 29	259.0 29	123.0 29	61.5 29	30.7 29	20.5 29	15.4 29	10.1 29	5.5 29
1957	18600.0 3	8610.0 4	5210.0 3	4150.0 1	3460.0 1	2490.0 1	1910.0 1	1470.0 1	997.0 1	500.0 3
1958	2680.0 26	1440.0 26	1060.0 25	733.0 23	570.0 22	386.0 20	266.0 22	203.0 23	149.0 22	79.3 23
1959	6360.0 19	2810.0 21	2130.0 16	1590.0 10	861.0 16	532.0 16	541.0 11	412.0 12	280.0 14	145.0 18
1960	20800.0 2	15300.0 2	7680.0 2	3840.0 3	1970.0 4	1010.0 5	759.0 6	600.0 6	485.0 6	331.0 5
1961	18100.0 4	10300.0 3	4800.0 4	2680.0 4	1590.0 5	1250.0 4	1020.0 4	840.0 4	776.0 3	410.0 4
1962	11100.0 10	3950.0 15	2020.0 17	1270.0 16	951.0 12	660.0 12	497.0 14	389.0 14	301.0 12	231.0 8
1963	1500.0 27	710.0 27	345.0 28	177.0 28	112.0 28	68.9 28	73.6 27	61.3 28	52.1 27	31.1 27
1964	2730.0 25	1540.0 25	679.0 26	320.0 26	182.0 26	102.0 26	82.1 26	62.3 27	71.7 26	36.4 26
1965	6410.0 18	3210.0 18	2150.0 15	1220.0 17	661.0 19	450.0 19	331.0 19	290.0 19	216.0 18	147.0 17
1966	1200.0 28	685.0 28	418.0 27	223.0 27	142.0 27	79.5 27	58.3 28	64.7 26	47.9 28	26.2 28
1967	4500.0 24	2310.0 23	1080.0 24	616.0 25	447.0 24	346.0 21	292.0 20	241.0 20	185.0 20	93.7 21
1968	12100.0 8	4830.0 11	2430.0 14	1440.0 14	1060.0 10	671.0 10	541.0 12	435.0 10	312.0 11	174.0 13
1969	13100.0 5	5950.0 7	4060.0 6	2280.0 6	1330.0 6	699.0 8	577.0 7	514.0 7	387.0 7	235.0 7
1970	12300.0 7	5710.0 8	2570.0 11	1520.0 11	915.0 13	671.0 11	565.0 9	428.0 11	283.0 13	175.0 10
1971	5040.0 21	3150.0 19	1410.0 21	1030.0 20	684.0 18	343.0 22	238.0 23	205.0 22	139.0 23	89.8 22
1972	12900.0 6	6410.0 5	3110.0 7	1620.0 7	915.0 14	638.0 14	478.0 15	368.0 16	246.0 17	174.0 11
1973	11700.0 9	6100.0 6	4200.0 5	2490.0 5	2000.0 3	1630.0 2	1220.0 2	1110.0 2	904.0 2	556.0 1
1974	28500.0 1	17100.0 1	8220.0 1	4100.0 2	2360.0 2	1250.0 3	1040.0 3	998.0 3	753.0 4	552.0 2

## STATISTICS OF ANNUAL DISCHARGE FOR WATER YEARS, 1946-74

Units of annual Discharge	Mean	Standard Deviation	Coefficient of Variation	Skew Coefficient	First Order Serial Correlation Coefficient
CFS	187	151	0.80	1.32	0.32
LOGS of CFS	2.113	0.436		-1.142	0.102

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LOCATION.--Lat 36°20'55", long 96°06'35", in SW 1/4 SE 1/4 sec.27, T.22 N., R.11 E., Osage County, near left bank on downstream side of pier of bridge on State Highway 20, 1.0 mi (1.6 km) upstream from Tall Chief Creek, 6.0 mi (9.7 km) west of Skiatook, and at mile 16.7 (26.9 km).

AVERAGE DISCHARGE.--30 years (1945-74), 178 ft<sup>3</sup>/s (5.04 m<sup>3</sup>/s).

HOMINY CREEK NEAR SKIATOOK, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	
YEAR	NUMBER OF DAYS IN CLASS																																			
1945		2	8	7	2	4	1	3	10	23	13	21	36	46	23	20	18	26	22	17	18	9	9	4	5	3	4	2	1	2	5	1			CFS_DAYS	85223.6
1946	41	2	3	3	8	12	7	5	8	7	6	64	10	20	33	24	25	20	14	11	10	8	6	6	1	4	2	2	1	1		1		42502.9		
1947		5	5	6	2	7	25	7	40	39	47	30	24	16	14	9	12	10	12	7	11	7	2	4	4	7	6	3	1	1	2		1		55972.5	
1948		7	2	23	29	16	25	17	19	27	27	34	14	13	10	23	13	9	11	4	7	5	3	5	3	2	4	4	1	1	3			74496.0		
1949					57	1		1	26	21	14	6	17	10	16	16	33	25	20	22	21	11	5	8	8	7	3	4	3	2	1			91420.8		
1950							11	9	33	31	22	44	49	32	17	16	23	12	13	8		5	4	4	3	2	4	8	2	3	3			71863.3		
1951								5	36	46	27	32	35	31	21	26	20	16	15	12	7	7	4	4	2	3	4	4	3			1		63632.6		
1952	49	6	5	1	2	5	6	2	6	6	6	15	21	51	39	27	28	19	12	7	8	6	9	5	4	7	1	4					49539.3			
1953	42	42	53	4	15	13	5	14	14	19	20	14	17	8	12	11	7	6	14	4	7	3	3	2	2	2	2		2				20823.0			
1954	90	22	20	17	23	25	27	26	22	18	16	13	5	6	5	6	3	5	3	1	2	2	1	2			1	2	1				18108.8			
1955	98	39	12	5	10	19	15	17	16	13	13	15	14	12	15	9	7	5	3	2	3	6	3	4		5	2	2		1			23166.5			
1956	291	17	12	5	3	4	2	4	1	3	2	3	3	2	2		3		1		1	2			1								2328.0			
1957	175				3	7	2	7	13	8	11	10	9	9	10	4	3	5	6	8	6	10	4	6	8	11	1	9	3	5	4	1		158647.4		
1958					10	19	21	31	22	43	31	20	23	22	17	19	13	13	8	14	5	8	10	2	6	4	3	1						37461.4		
1959	3	21	5	1	18	10	23	17	45	23	14	21	18	17	21	13	20	11	10	9	9	5	3	7	4	1	7	3	1					49057.5		
1960							3	13	5	5	9	9	10	39	28	28	67	36	27	20	14	1														

## STATION NUMBER 07177000

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## HOMINY CREEK NEAR SKIATOOK, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1945	0.40 19	0.53 22	0.71 22	2.49 26	7.17 26	12.10 23	30.10 26	63.20 25	83.40 24	166.00 17
1946	0.10 13	0.13 16	0.19 16	0.21 16	1.06 17	4.08 20	11.70 20	80.80 27	206.00 28	252.00 23
1947	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.87 12	1.74 10	2.30 10	32.80 17	40.40 3
1948	0.10 14	0.10 13	0.10 13	0.19 15	0.33 14	0.40 7	0.65 6	1.52 8	2.08 6	146.00 16
1949	0.40 20	0.40 19	0.40 19	0.40 17	0.40 15	0.43 8	0.81 7	1.04 6	43.20 18	243.00 22
1950	1.20 25	1.20 25	1.20 25	1.31 23	2.25 22	3.76 19	6.69 17	7.18 15	8.70 9	203.00 19
1951	1.50 26	1.60 26	1.69 26	1.75 25	1.85 21	2.22 17	3.03 12	3.64 12	13.10 13	205.00 20
1952	2.80 29	2.97 29	3.84 29	5.49 28	18.80 29	23.50 27	33.70 27	124.00 30	147.00 26	253.00 24
1953	0.00 2	0.00 2	0.00 2	0.00 2	0.00 2	0.00 1	0.05 4	0.07 4	0.24 4	53.40 6
1954	0.00 3	0.00 3	0.00 3	0.02 10	0.44 16	0.69 9	0.97 8	1.73 9	1.95 5	48.40 5
1955	0.00 4	0.00 4	0.00 4	0.00 3	0.00 3	0.01 4	0.01 3	0.01 2	0.09 2	60.20 9
1956	0.00 5	0.00 5	0.00 5	0.00 4	0.00 4	0.00 2	0.00 1	0.01 3	9.79 10	56.20 7
1957	0.00 6	0.00 6	0.00 6	0.00 5	0.00 5	0.00 3	0.00 2	0.00 1	0.00 1	2.04 1
1958	0.40 21	0.43 21	0.54 21	0.69 21	1.64 20	5.16 21	6.70 18	6.95 14	12.80 12	495.00 30
1959	0.00 7	0.00 7	0.06 11	0.08 11	0.11 10	1.69 16	2.83 11	2.66 11	4.85 8	46.60 4
1960	0.40 22	0.40 20	0.47 20	0.51 18	3.61 24	30.10 29	78.10 30	92.20 28	258.00 30	377.00 28
1961	0.80 23	0.90 23	1.06 24	1.31 24	1.47 19	3.71 18	10.40 19	25.20 20	29.40 16	141.00 14
1962	3.80 30	4.30 30	6.10 30	10.80 30	30.10 30	42.90 30	47.20 29	114.00 29	200.00 27	407.00 29
1963	0.90 24	0.97 24	1.03 23	1.21 22	3.57 23	29.60 28	34.00 28	35.70 21	49.90 21	113.00 12
1964	0.00 8	0.00 8	0.00 7	0.00 6	0.00 6	0.04 5	0.06 5	0.10 5	0.22 3	4.55 2
1965	0.00 9	0.00 9	0.00 8	0.00 7	0.04 9	1.04 14	24.80 23	18.70 18	26.40 15	64.70 10
1966	0.00 10	0.00 10	0.00 9	0.00 8	0.00 7	1.60 15	3.22 13	3.75 13	11.60 11	78.70 11
1967	0.00 11	0.00 11	0.00 10	0.00 9	0.00 8	0.74 10	1.19 9	1.45 7	4.84 7	58.70 8
1968	2.30 28	2.50 28	3.30 28	6.22 29	10.40 27	13.80 24	23.80 22	36.70 22	54.10 22	218.00 21
1969	0.13 16	0.13 14	0.13 14	0.17 14	0.25 12	0.80 11	3.68 14	13.40 17	49.50 20	178.00 18
1970	0.11 15	0.13 15	0.13 15	0.14 12	0.28 13	0.98 13	6.65 16	8.73 16	67.00 23	139.00 13
1971	0.10 12	0.10 12	0.10 12	0.14 13	0.17 11	0.23 6	4.17 15	25.20 19	20.30 14	146.00 15
1972	0.20 17	0.23 17	0.34 17	0.65 20	5.56 25	17.10 25	27.90 24	50.90 24	239.00 29	269.00 25
1973	0.22 18	0.28 18	0.34 18	0.54 19	1.28 18	11.10 22	18.10 21	39.20 23	46.50 19	344.00 26
1974	1.80 27	1.97 27	2.30 27	3.91 27	11.90 28	21.90 26	29.60 25	77.80 26	130.00 25	369.00 27

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## HOMINY CREEK NEAR SKIATOOK, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1945	8410.0 12	6030.0 9	3680.0 7	1720.0 10	858.0 15	543.0 16	415.0 17	355.0 15	310.0 11	233.0 7
1946	8670.0 9	3310.0 22	1650.0 22	846.0 24	440.0 25	302.0 22	269.0 22	218.0 22	193.0 21	116.0 21
1947	7000.0 18	4130.0 17	2010.0 16	1080.0 17	893.0 14	666.0 12	533.0 13	403.0 13	266.0 15	153.0 16
1948	8380.0 13	6220.0 8	3490.0 8	1780.0 8	1740.0 3	968.0 5	695.0 8	571.0 8	405.0 7	204.0 8
1949	9980.0 7	6880.0 6	4080.0 5	2230.0 5	1310.0 6	1110.0 4	765.0 5	607.0 6	492.0 6	250.0 6
1950	6980.0 19	3870.0 19	2310.0 14	1390.0 14	1190.0 8	646.0 13	711.0 6	572.0 7	384.0 8	197.0 9
1951	7950.0 14	4520.0 15	2030.0 15	1470.0 13	1140.0 10	686.0 10	538.0 12	423.0 11	322.0 10	174.0 12
1952	3390.0 26	1970.0 26	986.0 27	642.0 26	483.0 24	373.0 21	309.0 21	254.0 20	215.0 20	135.0 18
1953	3130.0 27	2070.0 25	977.0 28	509.0 28	313.0 27	214.0 26	180.0 26	144.0 27	105.0 26	57.0 26
1954	5140.0 23	3700.0 21	1920.0 18	932.0 21	535.0 22	293.0 25	197.0 25	148.0 25	97.6 27	49.6 27
1955	3910.0 25	2250.0 24	1460.0 23	862.0 23	544.0 21	299.0 23	236.0 23	188.0 23	126.0 24	63.5 24
1956	945.0 29	501.0 30	249.0 30	119.0 30	59.7 30	29.9 30	19.9 30	14.9 30	9.9 30	6.4 30
1957	11100.0 5	7470.0 4	5580.0 2	3730.0 2	2950.0 1	2100.0 1	1720.0 1	1310.0 1	867.0 1	435.0 3
1958	2920.0 28	1810.0 28	1270.0 25	885.0 22	707.0 18	469.0 17	328.0 20	253.0 21	188.0 22	103.0 22
1959	4500.0 24	1910.0 27	1300.0 24	989.0 19	706.0 19	388.0 20	427.0 15	334.0 18	258.0 16	134.0 19
1960	30000.0 1	19400.0 1	9910.0 1	4750.0 1	2390.0 2	1220.0 3	860.0 3	665.0 4	496.0 5	367.0 4
1961	11400.0 4	6980.0 5	3490.0 9	1750.0 9	948.0 12	729.0 9	778.0 4	683.0 3	605.0 3	324.0 5
1962	6230.0 21	3730.0 20	1800.0 20	978.0 20	629.0 20	445.0 18	335.0 19	265.0 19	219.0 19	192.0 10
1963	690.0 30	504.0 29	254.0 29	147.0 29	118.0 29	67.8 29	67.9 29	55.9 29	53.6 29	30.3 29
1964	5750.0 22	2560.0 23	1130.0 26	535.0 27	274.0 28	171.0 28	146.0 28	111.0 28	84.9 28	42.8 28
1965	6850.0 20	4160.0 16	1800.0 21	844.0 25	422.0 26	211.0 27	158.0 27	146.0 26	145.0 23	95.1 23
1966	7500.0 16	4540.0 14	1980.0 17	1050.0 18	533.0 23	299.0 24	199.0 24	160.0 24	113.0 25	62.1 25
1967	8520.0 10	5580.0 10	2480.0 13	1320.0 15	898.0 13	574.0 15	424.0 16	351.0 17	258.0 17	132.0 20
1968	8430.0 11	5540.0 11	2830.0 12	1680.0 11	1150.0 9	798.0 8	599.0 9	479.0 9	344.0 9	185.0 11
1969	7010.0 17	4040.0 18	1850.0 19	1260.0 16	768.0 17	413.0 19	342.0 18	363.0 14	276.0 13	173.0 13
1970	10500.0 6	6610.0 7	2950.0 11	1830.0 7	1020.0 11	671.0 11	549.0 10	416.0 12	275.0 14	172.0 14
1971	13900.0 2	10300.0 2	4550.0 4	2640.0 3	1610.0 5	808.0 7	549.0 11	442.0 10	300.0 12	171.0 15
1972	8920.0 8	5360.0 12	2960.0 10	1490.0 12	841.0 16	627.0 14	462.0 14	354.0 16	243.0 18	148.0 17
1973	7580.0 15	4750.0 13	3680.0 6	2130.0 6	1710.0 4	1390.0 2	1020.0 2	924.0 2	767.0 2	473.0 1
1974	13700.0 3	10100.0 3	4630.0 3	2240.0 4	1280.0 7	828.0 6	700.0 7	649.0 5	572.0 4	454.0 2

## STATISTICS OF ANNUAL DISCHARGE FOR WATER YEARS, 1945-74

Units of annual Discharge	Mean	Standard Deviation	Coefficient of Variation	Skew Coefficient	First Order Serial Correlation Coefficient
CFS	178	124	0.70	1.07	0.33
LOGS of CFS	2.122	0.392		-1.346	0.239

ARKANSAS RIVER BASIN

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07177500 BIRD CREEK NEAR SPERRY, OKLA.

LOCATION.--Lat 36°16'42", long 95°57'14", in NW 1/4 NW 1/4 sec.29, T.21 N., R.13 E., Tulsa County, on downstream side of right pier of county road bridge, 1.5 mi (2.4 km) upstream from Delaware Creek, 2.4 mi (3.9 km) downstream from Hominy Creek, 2.5 mi (4.0 km) southeast of Sperry, and at mile 25.0 (40.2 km).

DRAINAGE AREA.--905 mi<sup>2</sup> (2,344 km<sup>2</sup>).

PERIOD OF RECORD.--October 1938 to September 1974.

AVERAGE DISCHARGE.--36 years (1939-74), 482 ft<sup>3</sup>/s (13.6 m<sup>3</sup>/s).

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

BIRD CREEK NEAR SPERRY, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS	
1939	18	2	3	4		7	18	4	12	12	58	55	107	10	12	7	10	7	5	4	4			1	2	1		1							27903.7	
1940	28			5	44	62	23	8	20	23	28	22	20	18	11	7	9	5	4	10	7	5	1	1	1	2	1		1						37465.9	
1941					2	10	19	7	10	14	22	19	16	25	28	35	43	32	16	17	12	10	5	2	3	3	7	4	2	1	1				159061.6	
1942														12	15	37	51	47	44	34	20	19	18	13	6	8	12	11	6	5	5	2			537382.0	
1943						5	13	24	12	16	14	8	88	50	35	20	17	14	10	8	3	3	7	4	2	4	2	1			2	2	1		388785.4	
1944									4	16	26	32	24	22	36	41	36	34	25	15	13	9	10	9	5	2	4	1	2						163874.7	
1945										2	20	16	24	24	42	55	24	21	30	28	16	16	11	7	8	3	2	6	4	6					261233.0	
1946								20	9	15	22	14	11	49	31	25	38	32	27	16	16	9	12	3	5	5	1	2	1	1	1				131000.7	
1947								8	26	10	52	17	39	46	40	17	15	11	13	12	15	4	8	8	9	3	5	4	2	1					144939.2	
1948								11	32	33	67	34	29	23	14	12	22	19	16	8	9	4	7	3	4	4	5	3	3						170398.8	
1949								2	8	14	23	43	22	19	16	14	19	22	27	34	30	15	13	8	12	4	3	3	5	1					162346.8	
1950											1	43	39	61	55	28	19	27	15	18	10	9	6	2	6	10	4	7	3	2					198619.4	
1951														46	63	21	32	29	30	38	24	22	17	11	4	3	6	7	4	3	4	1			162540.8	
1952														7	8	7	13	36	49	37	36	30	17	6	11	10	11	5	5	2	1				135541.6	
1953				1	3	17	8	16	14	30	64	26	24	22	14	12	16	14	15	13	13	10	13	3	7	2	3	2	2						55135.1	
1954		76	1	2	12	2	6	20	24	58	36	16	27	14	20	12	9	4	6	2	6	1	1	4	2	1									45173.1	
1955		54	1	7	6	6	29	10	14	29	22	23	16	17	29	21	18	12	11	8	6	3	5	3	5	4	2	1	2	1					61310.8	
1956	139	24	17	27	24	53	14	13	9	10	6	5	5	3	4	3	2	1	2	1		2		2											5547.8	
1957	90	24	20	18	6	6	1	2	2	2	2	2	3	6	6	5	22	32	23	8	5	5	15	10	10	8	8	6	7	9	2				416977.2	
1958											2	8	33	50	53	39	32	26	21	20	16	10	13	9	10	7	7	6	2	1					87466.9	
1959											20	19	18	30	62	16	18	18	24	28	24	14	15	10	9	4	10	7	4	6	4	3	2			118165.3
1960											7	15	13	15	12	20	34	27	39	36	56	28	18	11	5	7	5	6	4	4	1	1		1	1	34538.6
1961											7	8	15	40	47	38	29	29	15	22	31	21	7	11	9	4	7	9	5	4	5	2			321134.8	
1962											15	4	7	14	15	18	18	44	60	41	39	29	17	10	7	7	7	6	5	1	1				180852.1	
1963				1	1	1	7	18	14	16	26	13	9	8	16	67	64	37	19	15	9	9	5	6	1	2	1								35621.1	
1964			7	12	8	11	5	9	15	23	35	28	35	27	39	29	21	17	14	7	5	4	2	1	4		1	1	1	1					44442.3	
1965			3	5	5	4	7	4	12	12	20	13	8	8	4	22	37	38	49	37	21	15	8	6	2	7	6	6	3	2	1					99212.5
1966	19	2	2	2		6	2	1	5	39	60	64	36	27	26	23	17	12	5	6	3	3	4	3				1	2						35204.4	
1967						5	25	11	17	32	35	29	23	28	12	22	14	17	20	21	16	7	6	6	2	5	6	3	1	2					92651.6	
1968				1	13	2	9	3	2	3	4	6	8	11	22	55	31	25	28	35	40	15	16	8	8	7	5	3	3	2	1				156014.8	
1969						1	3	1			12	14	11	32	14	7	11	12	20	66	41	40	19	18	10	3	8	6	3	5					193349.5	
1970						1	5	9	27	12	15	13	9	50	59	18	35	25	21	14	13	7	4	8	5	5	3	2	2	3					158461.5	
1971			1	1	6	6	4	7	5	13	45	49	25	24	37	28	28	22	14	9	12	7	4	3	4	1	4	1	3	1	1				129649.5	
1972						3	1	5	11	4	18	15	27	37	51	50	45	21	26	15	11	5	7	2	1	5	3	1	2						141701.0	
1973							2	1		4	3	3	10	14	18	17	18	30	36	39	38	30	25	13	10	12	13	12	12	4	1				472752.5	
1974																8	14	8	16	14	13	49	43	65	35	26	9	15	10	9	6	11	8	4	2	436833.0

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

BIRD CREEK NEAR SPERRY, OKLAHOMA

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	434	13149	100.0	9	3.70	538	11074	84.2	18	140.0	771	3563	27.2	27	5400	122	298	2.2
1	0.10	72	12715	96.7	10	5.60	777	10536	80.1	19	210.0	224	2812	21.4	28	8100	95	176	1.3
2	0.20	70	12643	96.2	11	8.40	772	9759	74.2	20	320.0	481	2084	15.8	29	12000	56	81	.6
3	0.30	127	12573	95.6	12	13.00	827	8987	68.3	21	480.0	337	1603	12.2	30	18000	14	25	.1
4	0.50	123	12446	94.7	13	19.00	798	8160	62.1	22	720.0	266	1266	9.6	31	27000	6	11	.0
5	0.70	264	12323	93.7	14	28.00	1014	7362	56.0	23	1100.0	207	1000	7.6	32	41000	3	5	.0
6	1.10	223	12059	91.7	15	42.00	904	6348	48.3	24	1600.0	194	793	6.0	33	61000	2	2	.0
7	1.70	274	11836	90.0	16	63.00	931	5444	41.4	25	2400.0	162	599	4.6	34				
8	2.50	488	11562	87.9	17	95.00	930	4513	34.3	26	3600.0	139	437	3.3					



## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## BIRD CREEK NEAR SPERRY, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.12 3	0.33 4	0.43 3	0.68 2	71.30 3
1940										
1941	0.30 12	0.57 13	0.64 12	1.09 12	1.56 11	2.11 8	123.00 31	118.00 27	162.00 26	192.00 12
1942	3.80 24	3.80 23	4.03 23	4.71 22	12.50 29	19.30 25	142.00 33	215.00 30	689.00 35	1020.00 31
1943	22.00 35	22.00 35	23.00 35	28.90 34	30.80 32	51.20 29	93.00 30	87.60 22	139.00 22	869.00 28
1944	2.20 22	2.20 21	2.43 21	3.11 19	5.89 19	7.08 17	16.80 17	91.10 23	146.00 23	1170.00 34
1945	4.50 25	4.50 25	5.67 26	11.40 30	17.40 30	41.70 27	80.70 25	161.00 29	254.00 28	524.00 22
1946	5.00 27	5.27 27	5.67 27	6.41 26	8.47 22	15.40 23	45.90 22	312.00 32	511.00 31	762.00 27
1947	2.10 20	2.10 20	2.10 19	2.10 18	4.51 17	9.88 19	10.40 13	13.20 13	111.00 18	124.00 6
1948	1.70 19	1.83 19	2.10 20	2.55 18	3.57 16	4.39 12	4.77 9	5.89 9	8.19 7	369.00 17
1949	1.30 17	1.43 17	1.64 16	1.99 14	2.84 15	4.16 11	5.20 10	5.66 8	117.00 19	575.00 24
1950	5.60 28	6.13 28	6.97 28	9.60 28	10.50 26	15.00 22	22.70 19	27.00 17	32.60 12	373.00 18
1951	8.60 31	9.33 31	9.70 31	9.81 29	10.30 24	11.40 21	13.40 15	15.70 14	48.80 13	573.00 23
1952	12.00 32	12.30 32	14.00 33	16.90 33	81.20 34	103.00 34	126.00 32	376.00 35	436.00 30	664.00 26
1953	0.30 13	0.30 11	0.34 11	0.37 8	0.57 7	0.88 6	1.25 5	1.88 6	2.53 3	128.00 7
1954	0.10 8	0.17 9	0.26 9	0.49 10	1.54 10	3.24 9	4.26 8	6.91 10	6.93 6	133.00 8
1955	0.00 2	0.00 2	0.00 2	0.00 2	0.00 2	0.00 1	0.00 1	0.21 2	4.20 5	148.00 9
1956	0.00 3	0.00 3	0.00 3	0.00 3	0.01 4	0.12 4	0.28 3	0.44 4	24.60 10	151.00 10
1957	0.00 4	0.00 4	0.00 4	0.00 4	0.00 3	0.00 2	0.00 2	0.00 1	0.01 1	3.50 1
1958	7.20 29	7.20 29	8.27 29	8.88 27	11.50 27	17.50 24	20.60 18	23.20 16	51.30 14	1290.00 35
1959	1.20 16	1.20 15	1.29 14	1.48 13	1.68 12	5.87 15	8.06 11	7.62 11	16.10 9	109.00 5
1960	1.50 18	1.80 18	1.93 17	2.11 17	10.30 25	82.30 33	284.00 35	322.00 33	615.00 34	978.00 30
1961	4.80 26	4.80 26	5.14 25	5.77 25	5.93 20	11.10 20	32.60 20	53.50 19	65.10 16	319.00 15
1962	17.00 34	18.30 34	22.40 34	34.40 35	122.00 35	150.00 35	167.00 34	372.00 34	596.00 33	1140.00 32
1963	3.80 23	4.07 24	4.40 24	4.77 23	12.30 28	74.40 32	91.50 28	111.00 25	147.00 24	270.00 14
1964	0.10 9	0.10 8	0.10 8	0.13 6	0.51 6	0.67 5	1.29 6	1.72 5	2.67 4	21.40 2
1965	0.00 5	0.00 5	0.00 5	0.23 7	1.46 9	5.31 13	83.10 26	69.80 21	86.40 17	192.00 11
1966	0.00 6	0.00 6	0.09 7	0.90 11	2.83 14	5.83 14	10.30 12	10.80 12	26.80 11	212.00 13
1967	0.00 7	0.00 7	0.00 6	0.01 5	0.38 5	1.38 7	2.64 7	3.34 7	8.67 8	87.50 4
1968	7.20 30	7.43 30	8.34 30	11.50 31	27.70 31	37.70 26	67.50 24	106.00 24	136.00 21	452.00 21
1969	0.23 11	0.28 10	0.31 10	0.38 9	0.64 8	6.78 16	13.50 16	22.50 15	124.00 20	444.00 20
1970	2.20 21	2.33 22	2.66 22	4.06 21	5.30 18	9.61 18	36.70 21	39.80 18	197.00 27	441.00 19
1971	0.60 14	0.63 14	1.34 15	2.04 15	2.74 13	4.06 10	12.90 14	63.80 20	56.80 15	362.00 16
1972	0.20 10	0.33 12	0.86 13	3.49 20	6.55 21	52.00 30	92.60 29	115.00 26	591.00 32	593.00 25
1973	1.20 15	1.40 16	2.10 18	4.93 24	9.47 23	41.90 28	60.30 23	158.00 28	161.00 25	914.00 29
1974	12.00 33	12.70 33	13.90 32	16.90 32	42.40 33	57.10 31	84.50 27	257.00 31	357.00 29	1140.00 33

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## BIRD CREEK NEAR SPERRY, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
	8690.0 31	4070.0 33	2590.0 30	1310.0 32	746.0 32	397.0 32	276.0 33	211.0 34	143.0 35	76.4 35
	9940.0 26	5450.0 28	2450.0 33	1160.0 34	675.0 33	362.0 33	312.0 32	268.0 32	203.0 32	102.0 32
1941	18000.0 10	12700.0 10	5800.0 15	2800.0 19	2030.0 19	1620.0 10	1270.0 16	959.0 17	690.0 15	436.0 16
1942	37800.0 4	25400.0 4	13600.0 4	9070.0 4	6500.0 3	3650.0 4	2700.0 4	2090.0 4	1680.0 4	1470.0 4
1943	73700.0 1	63000.0 1	31700.0 1	20600.0 1	11600.0 1	5950.0 1	4030.0 2	3030.0 2	2030.0 3	1070.0 5
1944	15900.0 14	10800.0 16	5080.0 19	2670.0 21	2170.0 18	1450.0 19	1140.0 18	944.0 18	673.0 17	448.0 14
1945	17600.0 11	12300.0 12	7280.0 11	3750.0 13	2230.0 15	1770.0 11	1340.0 12	1310.0 12	942.0 10	716.0 8
1946	20600.0 7	12700.0 11	5650.0 17	2720.0 20	1390.0 26	824.0 26	726.0 26	643.0 25	592.0 23	359.0 22
1947	13400.0 20	9030.0 20	4720.0 21	2600.0 22	2210.0 16	1680.0 13	1340.0 13	1020.0 15	673.0 18	397.0 19
1948	15100.0 15	11500.0 15	8590.0 8	4200.0 10	3880.0 7	2200.0 8	1550.0 9	1290.0 10	923.0 11	466.0 13
1949	14300.0 17	11800.0 13	8580.0 9	4500.0 9	2590.0 13	1910.0 9	1330.0 14	1100.0 12	976.0 9	500.0 11
1950	13800.0 18	9850.0 18	5640.0 18	3370.0 16	2620.0 11	1640.0 14	1810.0 8	1560.0 8	1050.0 8	544.0 9
1951	12300.0 22	9000.0 21	4360.0 22	3620.0 14	2600.0 12	1540.0 16	1280.0 15	996.0 16	797.0 13	445.0 15
1952	8140.0 32	5370.0 29	2580.0 31	1840.0 29	1350.0 27	1030.0 23	812.0 23	665.0 24	615.0 20	370.0 21
1953	9000.0 30	5180.0 30	2540.0 32	1550.0 30	988.0 30	631.0 30	505.0 29	399.0 29	284.0 29	151.0 29
1954	10900.0 24	9800.0 19	4940.0 20	2370.0 23	1290.0 28	722.0 29	487.0 30	367.0 30	242.0 30	124.0 30
1955	9100.0 29	5630.0 27	4070.0 23	2340.0 24	1490.0 24	808.0 27	624.0 27	492.0 28	328.0 28	168.0 28
1956	1500.0 36	1130.0 36	611.0 36	294.0 36	148.0 36	74.1 36	49.4 36	37.2 36	26.1 36	15.2 36
1957	25800.0 6	17500.0 6	13200.0 5	9220.0 3	7790.0 2	5610.0 2	4440.0 1	3400.0 1	2280.0 1	1140.0 4
1958	6600.0 33	3970.0 34	2890.0 29	2080.0 27	1720.0 21	1120.0 22	791.0 24	602.0 26	443.0 26	240.0 27
1959	9190.0 28	4880.0 32	3380.0 26	2970.0 18	1630.0 22	1010.0 24	1110.0 20	856.0 21	615.0 21	324.0 24
1960	61300.0 2	45900.0 2	24700.0 2	12000.0 2	6110.0 4	3120.0 5	2250.0 5	1760.0 7	1340.0 7	939.0 6
1961	26300.0 5	18700.0 5	9280.0 7	5180.0 7	3000.0 9	2230.0 6	2130.0 6	1850.0 6	1660.0 5	880.0 7
1962	13100.0 21	8130.0 23	3670.0 25	2200.0 25	1620.0 23	1220.0 21	942.0 22	749.0 22	627.0 19	495.0 12
1963	2560.0 35	1660.0 35	848.0 35	447.0 35	360.0 35	214.0 35	216.0 35	179.0 35	161.0 34	98.1 33
1964	13400.0 19	7110.0 25	3200.0 27	1510.0 31	772.0 31	469.0 31	385.0 31	295.0 31	237.0 31	121.0 31
1965	10600.0 25	6690.0 26	2950.0 28	1910.0 28	1030.0 29	769.0 28	570.0 28	500.0 27	397.0 27	272.0 25
1966	6140.0 34	5110.0 31	2330.0 34	1220.0 33	633.0 34	355.0 34	239.0 34	225.0 33	171.0 33	96.5 34
1967	9690.0 27	7650.0 24	3820.0 24	2170.0 26	1460.0 25	1010.0 25	791.0 25	674.0 23	498.0 25	254.0 26
1968	14600.0 16	10200.0 17	5690.0 16	3480.0 15	2440.0 14	1740.0 12	1340.0 10	1080.0 13	784.0 14	426.0 18
1969	11500.0 23	8570.0 22	6510.0 12	4040.0 11	2670.0 10	1420.0 20	1150.0 17	1150.0 11	864.0 12	530.0 10
1970	17100.0 12	12900.0 9	6450.0 13	3780.0 12	2170.0 17	1540.0 17	1340.0 11	1020.0 14	679.0 16	434.0 17
1971	18500.0 9	14600.0 7	7810.0 10	4720.0 8	3110.0 8	1560.0 15	1070.0 21	874.0 20	591.0 24	355.0 23
1972	15900.0 13	11600.0 14	6100.0 14	3280.0 17	1920.0 20	1490.0 18	1130.0 15	876.0 19	594.0 22	387.0 20
1973	19100.0 8	13700.0 8	9550.0 6	6080.0 6	4800.0 5	4070.0 3	2980.0 3	2640.0 3	2120.0 2	1290.0 2
1974	39200.0 3	28400.0 3	14400.0 3	7030.0 5	4020.0 6	2220.0 7	1960.0 7	1860.0 5	1430.0 6	1200.0 3

## MONTHLY DURATION TABLE

BIRD CREEK NEAR SPERRY, OKLAHOMA

PERIOD 1938-1974

CLASS LIMIT	TOTAL PERCENT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
0.60	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0.10	96.7	99.5	100.0	99.6	99.1	99.8	99.7	95.3	91.5	91.3	92.3	95.4	97.1
0.15	96.2	97.7	100.0	98.9	98.7	99.7	99.6	95.0	91.2	90.8	91.1	95.1	96.2
0.22	95.6	97.2	99.4	98.1	98.6	99.6	99.4	94.6	90.7	89.9	90.7	94.6	95.0
0.33	95.3	97.2	99.1	97.5	98.5	99.6	99.4	94.5	90.5	88.6	90.0	94.4	94.7
0.49	94.7	96.2	98.5	97.1	98.4	99.4	99.4	94.2	89.8	87.3	88.4	93.8	93.7
0.74	93.4	93.7	97.9	95.7	98.2	99.2	99.2	93.6	89.0	86.4	86.3	90.3	91.6
1.10	91.7	91.8	94.6	95.1	97.8	98.6	99.0	91.4	87.6	84.4	83.3	87.2	90.0
1.70	90.0	91.7	93.1	94.2	97.6	97.9	98.9	89.9	84.2	82.3	78.6	82.9	89.2
2.50	87.9	89.8	92.3	93.0	97.4	97.6	98.3	87.2	81.1	78.6	74.0	80.3	86.0
3.70	84.2	83.7	91.0	90.9	96.1	97.0	97.5	84.3	73.5	73.5	66.8	75.6	81.5
5.60	80.1	80.2	87.7	87.5	94.8	96.9	93.6	80.3	64.8	67.4	62.6	70.8	75.7
8.40	74.2	73.5	81.2	83.4	92.3	96.1	88.1	75.0	56.8	57.6	55.1	64.2	68.0
13.00	68.3	70.8	74.0	80.6	84.6	93.8	84.5	68.9	45.8	52.9	48.2	56.3	60.3
19.00	62.1	62.1	63.8	75.8	79.9	90.7	78.7	59.8	37.1	48.7	44.7	49.4	54.5
28.00	56.0	53.8	57.6	70.8	76.6	85.4	72.0	51.0	31.2	44.0	40.2	43.2	46.6
42.00	48.3	44.2	49.5	60.6	69.4	79.5	63.6	42.7	25.4	37.6	35.8	33.7	37.9
63.00	41.4	36.8	39.5	51.8	63.3	71.6	55.3	36.4	20.8	31.5	30.5	28.9	30.7
95.00	34.3	27.8	31.7	44.4	56.9	61.5	46.1	29.1	16.8	25.2	23.9	24.1	24.7
140.00	27.2	18.4	22.3	36.6	48.0	50.1	38.7	22.2	11.4	20.6	19.2	19.3	20.4
210.00	21.4	12.6	15.6	31.1	37.4	40.2	30.6	16.9	8.0	17.2	14.8	16.7	15.5
320.00	15.8	7.4	11.0	22.8	27.7	31.7	23.2	12.4	5.6	14.0	11.9	12.6	9.8
480.00	12.2	5.8	6.8	17.6	21.6	24.9	18.8	9.8	4.6	10.7	9.5	9.6	6.5
720.00	9.6	3.9	5.0	13.7	17.1	20.3	14.9	8.2	3.5	8.7	7.6	7.6	4.8
1100.00	7.6	2.6	3.1	10.2	14.3	16.4	12.7	6.4	2.7	7.7	6.2	5.3	3.7
1600.00	6.0	2.1	2.0	7.6	11.3	13.4	10.2	5.3	2.0	6.7	4.8	4.4	2.6
2400.00	4.6	1.8	1.1	5.4	8.2	10.0	7.5	4.3	1.7	5.5	4.0	3.0	1.5
3600.00	3.3	0.9	0.4	3.2	6.0	8.2	5.9	2.9	1.3	4.3	3.4	2.3	1.0
5400.00	2.3	0.6	0.0	2.2	4.4	5.8	3.6	2.2	1.0	3.1	2.5	1.3	0.5
8100.00	1.3	0.2	0.0	1.7	1.9	3.8	2.2	1.3	0.3	1.7	1.7	0.8	0.4
12000.00	0.6	0.0	0.0	0.8	0.9	1.9	1.0	0.4	0.2	0.6	1.2	0.3	0.1
18000.00	0.2	0.0	0.0	0.2	0.4	0.5	0.3	0.0	0.0	0.3	0.5	0.1	0.0
27000.00	0.1	0.0	0.0	0.2	0.0	0.4	0.1	0.0	0.0	0.0	0.3	0.0	0.0
41000.00	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.2	0.0	0.0
61000.00	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0

## STATISTICS OF ANNUAL DISCHARGE FOR WATER YEARS, 1939-74

Units of annual Discharge	Mean	Standard Deviation	Coefficient of Variation	Skew Coefficient	First Order Serial Correlation Coefficient
CFS	482	374	0.78	1.15	0.37
LOGS of CFS	2.532	0.415		-0.998	0.305



LOCATION.--Lat 36°09'43", long 95°37'07", in northwest corner sec.4, T.19 N., R.16 E., Rogert County, near right bank on downstream side of pier of bridge on State Highway 33, 1.0 mi (1.6 km) upstream from Salt Creek, 6.0 mi (9.7 km) west of Inola, and at mile 48.8 (78.5 km).

PERIOD OF RECORD.--September 1944 to September 1970. Statistical summaries for this station are divided into unregulated and regulated periods.

REMARKS.--Flow regulated since May 1963 by Oologah Reservoir, 41.5 mi (66.8 km) upstream; some regulation by reservoirs in Kansas since 1949 and by Hulah Reservoir since 1950.

## VERDIGRIS RIVER NEAR INOLA, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
YEAR	NUMBER OF DAYS IN CLASS																																		CFS, DAYS
1945	3 9 10 4 3 10 19 15 17 30 37 35 16 25 19 10 12 13 5 14 12 17 21 5 3 1																																		2808484.0
1946	1	4	3	6	10	10	10	5	13	7	11	8	26	37	25	13	17	39	14	23	14	17	11	9	6	5	6	3	4	3	3	2	1474365.0		
1947			3	6	4	11	6	20	24	25	20	19	27	22	13	21	15	19	8	15	6	6	7	8	9	9	7	16	12	1				1641886.0	
1948			1	7	7	18	17	25	41	26	23	21	19	12	8	13	15	20	15	6	8	6	5	3	1	13	3	9	11	10	3			1867347.0	
1949								28	5	9	37	20	9	13	15	9	15	12	14	32	21	23	29	11	16	17	11	10					2084284.0		
1950										17	21	29	43	41	32	25	29	16	15	16	6	11	15	10	8	7	20	4						1545628.0	
1951								2	26	59	25	11	4	10	17	16	20	16	17	18	13	15	28	17	7	15	6	16	5	2				2369989.0	
1952					1	16	8	25	21	18	6	5	6	2	4	9	13	51	23	36	29	22	16	11	22	12	4	6						1332220.0	
1953					5	50	36	63	43	34	20	12	7	12	14	11	10	9	4	7	11	6	3	2	2	1	3							293475.0	
1954			5	9	17	21	9	77	67	28	20	19	8	12	6	12	9	7	6	4	2	2	2	1	1	1	1	1	4					319317.0	
1955	2	3	6	3	11	20	38	29	14	13	34	32	15	17	21	19	17	5	15	6	8	6	9	4	7	6	1	2	2					441001.6	
1956	14	35	20	36	36	44	52	30	25	12	11	10	6	7	5	5	3	4	1	2	3		4											108853.7	
1957	9	4	7	9	19	12	20	30	28	19	15	19	10	16	11	9	6	4	5	3	4	6	4	11	7	6	8	11	18	11	8	1		2666281.3	
1958							3	8	11	7	23	36	25	40	28	25	29	23	17	7	13	11	9	7	12	18	11							1422452.0	
1959							15	8	12	10	51	27	39	27	19	23	31	21	11	16	10	5	15	3	4	6			9	3				1158738.0	
1960							16	4	5	10	16	6	16	17	17	24	36	46	21	24	18	32	9	15	8	11	6	4	2	3					2475610.0
1961							6	4	2	3	15	17	27	24	23	22	14	9	18	15	20	18	29	16	21	13	17	21		6	1	2	2		3426307.0
1962						2	9	2	4	4	16	11	11	8	14	11	7	45	29	34	17	20		17	28	23	26	14	12	1					2031204.0
1963						18	33	27	13	13	9	9	10	22	28	45	40	24	15	8	9	10	5	7	9	4	2	1							453921.0
1964						1	23	41	72	33	28	25	16	9	23	10	16	13	5	8	3	9	5	1	4	2	1	4	3	1					313032.0
1965							7	24	29	11	8	4	3	2	5	13	36	29	41	23	26	11	14	15	9	10	18	11	16						1556635.0
1966						5	4	23	73	30	17	25	16	21	30	12	19	15	24	17	16	6	4	5	2	1									287456.0
1967						24	60	34	28	14	7	12	36	10	15	5	10	9	17	15	6	19	6	14	14	6	6	4							717098.0
1968							1	4	5	7	7	11	16	19	44	33	48	16	31	19	29	24	13	10	16	11	2								1372408.0
1969						5	3	2	5	5	7	7	5	3	11	8	10	12	12	20	28	40	28	30	37	7	32	18							2570122.0
1970						3	3	34	25	13	14	20	15	19	14	20	16	27	12	11	10	8	15	14	18	13	31	7	3						1804316.0
CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	
0	0.00	0	9496	100.0	9	65.00	518	8165	86.0	18	930.0	420	4282	45.1	27	13000	237	892	9.3	27	13000	237	892	9.3	27	13000	237	892	9.3	27	13000	237	892	9.3	
1	6.20	11	9496	100.0	10	88.00	421	7647	80.5	19	1200.0	593	3862	40.7	28	18000	237	655	6.8	28	18000	237	655	6.8	28	18000	237	655	6.8	28	18000	237	655	6.8	
2	8.30	27	9485	99.9	11	120.00	351	7226	76.1	20	1700.0	376	3269	34.4	29	24000	197	418	4.4	29	24000	197	418	4.4	29	24000	197	418	4.4	29	24000	197	418	4.4	
3	11.00	61	9458	99.6	12	160.00	389	6875	72.4	21	2200.0	445	2893	30.5	30	32000	140	221	2.3	30	32000	140	221	2.3	30	32000	140	221	2.3	30	32000	140	221	2.3	
4	15.00	57	9397	99.0	13	210.00	349	6486	68.3	22	3000.0	350	2448	25.8	31	43000	48	81	0.8	31	43000	48	81	0.8	31	43000	48	81	0.8	31	43000	48	81	0.8	
5	20.00	129	9340	98.4	14	280.00	423	6067	64.1	23	4000.0	322	2098	22.1	32	57000	22	33	0.3	32	57000	22	33	0.3	32	57000	22	33	0.3	32	57000	22	33	0.3	
6	27.00	173	9211	97.0	15	380.00	450	5664	59.6	24	5400.0	288	1776	18.7	33	77000	9	11	0.1	33	77000	9	11	0.1	33	77000	9	11	0.1	33	77000	9	11	0.1	
7	36.00	432	9038	95.2	16	510.00	454	5214	54.9	25	7300.0	343	1488	15.7	34	100000	2	2	0.0	34	100000	2	2	0.0	34	100000	2	2	0.0	34	100000	2	2	0.0	
8	49.00	441	8806	90.6	17	690.00	478	4760	50.1	26	9800.0	253	1145	12.1																					

## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## VERDIGRIS RIVER NEAR INOLA, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1946	58.00 15	59.30 14	72.90 14	82.90 14	109.00 14	289.00 15	1830.00 21	2840.00 22	5080.00 23	7790.00 22
1947	10.00 3	10.70 3	12.70 3	21.10 4	35.40 5	62.50 9	121.00 10	150.00 9	633.00 12	1220.00 8
1948	19.00 6	19.70 5	21.30 5	43.60 9	49.40 10	55.10 7	114.00 8	106.00 6	133.00 5	4320.00 16
1949	67.00 16	67.00 16	67.30 13	68.40 13	71.50 12	135.00 12	472.00 14	404.00 14	3070.00 21	7290.00 20
1950	127.00 23	133.00 23	149.00 23	190.00 22	218.00 20	314.00 17	544.00 15	656.00 16	839.00 13	3540.00 14
1951	114.00 21	117.00 21	125.00 21	132.00 20	167.00 17	172.00 13	181.00 11	190.00 11	1040.00 15	4330.00 17
1952	569.00 25	608.00 25	843.00 25	1350.00 25	1920.00 24	2260.00 23	2420.00 23	4320.00 24	5000.00 22	8680.00 23
1953	33.00 10	33.30 10	34.60 9	36.40 7	39.90 6	47.00 5	54.40 5	63.00 4	76.70 3	1050.00 6
1954	36.00 11	37.00 11	38.00 10	39.60 8	49.20 9	50.70 6	55.90 6	85.30 5	112.00 4	732.00 4
1955	7.80 2	8.07 2	9.66 2	14.30 2	16.50 2	31.30 3	33.80 3	118.00 7	339.00 7	1190.00 7
1956	11.00 4	12.00 4	15.10 4	19.60 3	23.30 3	29.20 2	31.90 2	36.70 2	382.00 8	1030.00 5
1957	6.20 1	6.33 1	6.71 1	7.88 1	9.67 1	10.40 1	17.00 1	21.40 1	33.00 1	154.00 1
1958	78.00 17	82.00 18	96.70 19	103.00 18	202.00 19	293.00 16	322.00 12	397.00 13	468.00 9	9010.00 24
1959	82.00 19	83.70 19	84.00 17	92.90 15	102.00 13	276.00 14	339.00 13	331.00 12	514.00 10	2450.00 11
1960	121.00 22	126.00 22	147.00 22	236.00 23	710.00 23	2300.00 24	2700.00 24	3170.00 23	5720.00 24	7430.00 21
1961	78.00 18	79.70 17	85.10 18	105.00 19	112.00 15	401.00 20	748.00 18	861.00 18	1310.00 16	3280.00 13
1962	420.00 24	430.00 24	620.00 24	812.00 24	1990.00 25	3630.00 25	3560.00 25	5330.00 25	6600.00 22	12600.00 25
1963	46.00 13	48.30 12	51.00 11	58.70 11	126.00 16	373.00 19	776.00 19	1200.00 19	2250.00 17	2420.00 10
1964	19.00 5	20.00 6	21.60 6	26.40 5	31.10 4	32.10 4	37.60 4	40.70 3	47.00 2	169.00 2
1965	21.00 7	21.00 7	22.00 7	26.40 6	43.90 7	101.00 11	701.00 17	556.00 15	973.00 14	2070.00 9
1966	45.00 12	51.30 13	55.30 12	59.50 12	62.80 11	68.40 10	118.00 9	167.00 10	522.00 11	3270.00 12
1967	31.00 9	31.70 9	33.90 8	44.30 10	47.80 8	56.70 8	106.00 7	136.00 8	136.00 6	612.00 3
1968	56.00 14	62.00 15	75.70 15	102.00 17	602.00 22	961.00 21	1920.00 22	1740.00 20	2470.00 18	3660.00 15
1969	83.00 20	99.30 20	108.00 20	180.00 21	352.00 21	991.00 22	1610.00 20	1800.00 21	2740.00 20	4640.00 18
1970	29.00 8	29.70 8	82.10 16	96.60 16	173.00 18	343.00 18	697.00 16	796.00 17	2510.00 19	5730.00 19

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## VERDIGRIS RIVER NEAR INOLA, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1945	85000.0 4	72600.0 4	62200.0 4	46900.0 4	30300.0 6	23700.0 5	17300.0 4	14900.0 4	10700.0 5	7690.0 2
1946	86100.0 3	79700.0 3	66200.0 3	40200.0 7	20700.0 13	10600.0 15	7220.0 18	7700.0 16	6800.0 14	4040.0 14
1947	43200.0 9	40800.0 9	38100.0 9	33900.0 9	27100.0 7	20700.0 6	15500.0 6	12300.0 7	8200.0 10	4500.0 11
1948	73500.0 6	66800.0 6	55400.0 6	41600.0 6	32100.0 5	25200.0 3	17300.0 5	14000.0 6	10100.0 7	5100.0 9
1949	37900.0 10	37200.0 10	34900.0 10	22900.0 16	18700.0 15	13600.0 12	11200.0 12	10300.0 12	10400.0 6	5710.0 7
1950	34200.0 13	33400.0 13	30300.0 11	25100.0 13	21200.0 11	13200.0 13	12200.0 11	10700.0 9	7610.0 11	4240.0 13
1951	67900.0 7	62700.0 7	54500.0 7	46700.0 5	39400.0 3	24500.0 4	19100.0 3	15500.0 3	11900.0 3	6490.0 6
1952	31600.0 15	30500.0 16	23100.0 18	16700.0 17	11900.0 18	9720.0 17	7390.0 17	6190.0 18	6220.0 15	3640.0 17
1953	20200.0 22	15700.0 24	10100.0 24	6730.0 24	5420.0 22	3440.0 22	2670.0 22	2130.0 23	1480.0 24	804.0 24
1954	36900.0 11	35900.0 11	29500.0 12	16100.0 18	8430.0 20	4870.0 20	3270.0 21	2480.0 21	1640.0 23	875.0 22
1955	29200.0 18	26000.0 19	17800.0 20	12300.0 21	7910.0 21	4780.0 21	3380.0 20	2850.0 20	2050.0 21	1210.0 21
1956	12700.0 25	11500.0 25	7930.0 25	4170.0 26	2140.0 26	1090.0 26	737.0 26	559.0 26	384.0 26	297.0 26
1957	82300.0 5	71800.0 5	60800.0 5	50000.0 3	47300.0 1	36200.0 1	28300.0 1	21900.0 1	14500.0 2	7300.0 3
1958	30800.0 16	30700.0 15	28600.0 14	25500.0 11	22800.0 9	14500.0 11	10800.0 13	8340.0 13	7040.0 13	3900.0 15
1959	44500.0 8	43900.0 8	42100.0 8	35200.0 8	20700.0 12	11100.0 14	9630.0 15	7870.0 15	5730.0 17	3170.0 18
1960	98200.0 2	92800.0 2	74200.0 2	53900.0 2	33000.0 4	17500.0 7	12700.0 10	10400.0 10	9140.0 8	6760.0 5
1961	114000.0 1	105000.0 1	81300.0 1	58500.0 1	42900.0 2	27800.0 2	21300.0 2	17700.0 2	16600.0 1	9390.0 1
1962	32000.0 14	30900.0 14	28600.0 15	23000.0 15	20100.0 14	14800.0 10	12900.0 9	10300.0 11	8500.0 9	5560.0 8
1963	18100.0 24	16200.0 23	11800.0 23	7190.0 22	4090.0 23	2400.0 23	2520.0 24	2240.0 22	2220.0 20	1240.0 20
1964	25500.0 21	21700.0 21	14400.0 22	7120.0 23	3810.0 24	2220.0 25	2620.0 23	2000.0 24	1650.0 22	855.0 23
1965	28200.0 19	27700.0 18	27400.0 16	25400.0 12	16600.0 16	9830.0 16	10000.0 14	8110.0 14	6030.0 16	4260.0 12
1966	9830.0 26	8660.0 26	7410.0 26	4820.0 25	2990.0 25	2400.0 24	1730.0 25	1610.0 25	1240.0 25	788.0 25
1967	19600.0 23	18700.0 22	16000.0 21	12900.0 20	10700.0 19	7570.0 19	5760.0 19	4810.0 19	3780.0 19	1960.0 19
1968	27800.0 20	25200.0 20	21600.0 19	14900.0 19	12100.0 17	8740.0 18	7950.0 16	6730.0 17	5230.0 18	3750.0 16
1969	29300.0 17	28200.0 17	26100.0 17	23800.0 14	22100.0 10	17400.0 8	15000.0 7	14300.0 5	10800.0 4	7040.0 4
1970	36800.0 12	33500.0 12	29300.0 13	25900.0 10	23300.0 8	16000.0 9	13800.0 8	10900.0 8	7350.0 12	4940.0 10

## STATISTICS OF ANNUAL DISCHARGE FOR WATER YEARS, 1945-70

Units of annual Discharge	Mean	Standard Deviation	Coefficient of Variation	Skew Coefficient	First Order Serial Correlation Coefficient
CFS	4,058	2,520	0.62	0.16	0.35
LOGS of CFS	3.480	0.395		-0.988	0.337

## ARKANSAS RIVER BASIN

07185000 NEOSHO RIVER NEAR COMMERCE, OKLA.

LOCATION.--Lat 36°55'43", long 94°57'26", in SW 1/4 SE 1/4 sec.5, T.28 N., R.22 E., Ottawa County, on downstream side of left pier of county road bridge, 1.3 mi (2.1 km) upstream from Mud Creek, 2.2 mi (3.5 km) downstream from Four Mile Creek, 4.5 mi (7.2 km) west of Commerce, and at mile 153.4 (246.8 km).

DRAINAGE AREA.--5,876 mi<sup>2</sup> (15,219 km<sup>2</sup>).

PERIOD OF RECORD.--June 1939 to September 1974. Statistical summaries for this station are divided into unregulated and regulated periods.

AVERAGE DISCHARGE.--24 years (1940-63), 3,552 ft<sup>3</sup>/s (101 m<sup>3</sup>/s); 11 years (1964-74), 3,619 ft<sup>3</sup>/s (102 m<sup>3</sup>/s).

REMARKS.--Flow regulated to some extent since 1963 by John Redmond Reservoir in Kansas, 190 mi (306 km) upstream.

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

NEOSHO RIVER NEAR COMMERCE, OKLAHOMA

CLASS

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1

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34

YEAR

1940

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CFS\_DAYS

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1941

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1443728.0

1942

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23

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2564850.0

1943

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1810227.0

1944

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1861513.0

1945

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2491433.0

1946

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912811.0

1947

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1240394.0

1948

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31

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1627494.0

1949

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1471136.0

1950

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1238158.0

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3221888.0

1952

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963726.0

1953

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1960

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1961

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1962

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CLASS

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CLASS

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280.0

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68.6

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7.80

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94.9

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430.0

770

5350

61.0

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93.5

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680.0

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82.0

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6300.0

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14.0

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96.2

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180.00

677

6692

76.3

26

9900.0

293

907

10.3

## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## NEOSHO RIVER NEAR COMMERCE, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1941	8.40 6	9.00 6	10.70 6	12.10 6	13.10 6	84.10 7	315.00 10	384.00 10	531.00 9	1390.00 7
1942	176.00 17	192.00 17	223.00 18	265.00 19	316.00 16	919.00 18	1960.00 21	2180.00 18	6200.00 23	7000.00 21
1943	319.00 21	385.00 22	643.00 22	751.00 22	939.00 21	1390.00 21	2120.00 22	2680.00 21	2720.00 17	4490.00 16
1944	84.00 10	85.00 10	87.60 10	97.80 10	114.00 10	196.00 10	274.00 9	391.00 11	380.00 6	4680.00 17
1945	204.00 19	211.00 19	218.00 17	259.00 18	778.00 20	1090.00 20	1870.00 19	2590.00 20	3110.00 19	6500.00 20
1946	224.00 20	238.00 20	260.00 20	312.00 20	394.00 18	475.00 15	1290.00 18	2320.00 19	3770.00 21	6160.00 19
1947	63.00 9	66.30 9	73.10 9	87.70 9	106.00 9	208.00 12	330.00 11	373.00 8	683.00 11	1360.00 6
1948	36.00 8	39.30 8	42.30 8	48.40 8	71.50 8	81.30 6	192.00 6	188.00 5	256.00 4	3290.00 11
1949	137.00 11	139.00 11	148.00 12	156.00 11	165.00 11	193.00 9	442.00 12	452.00 12	2290.00 16	6000.00 18
1950	162.00 16	167.00 15	171.00 15	178.00 14	206.00 13	391.00 13	609.00 13	590.00 13	858.00 12	2340.00 8
1951	150.00 14	152.00 14	153.00 13	164.00 12	179.00 12	197.00 11	206.00 7	223.00 6	674.00 10	3300.00 12
1952	758.00 23	799.00 23	864.00 23	892.00 23	1300.00 23	1670.00 22	1880.00 20	2910.00 22	3700.00 20	10300.00 23
1953	4.40 5	5.10 5	6.13 5	7.09 4	12.20 5	19.40 5	43.00 5	56.80 4	69.10 3	831.00 3
1954	0.00 1	0.00 1	0.00 1	0.16 3	0.87 3	1.23 3	1.53 1	2.49 1	6.75 1	201.00 2
1955	0.00 2	0.00 2	0.00 2	0.00 1	0.00 1	0.00 1	5.93 3	254.00 7	529.00 8	1040.00 5
1956	2.80 4	3.87 4	6.04 4	7.25 5	9.11 4	9.28 4	11.00 4	16.00 3	350.00 5	882.00 4
1957	0.00 3	0.00 3	0.00 3	0.00 2	0.00 2	0.00 2	3.07 2	5.15 2	9.87 2	176.00 1
1958	9.30 7	10.40 7	12.60 7	13.40 7	22.40 7	136.00 8	233.00 8	374.00 9	461.00 7	3910.00 15
1959	153.00 15	178.00 16	228.00 19	254.00 17	308.00 15	407.00 14	661.00 14	719.00 14	982.00 13	3330.00 13
1960	141.00 12	145.00 12	147.00 11	172.00 13	298.00 14	689.00 16	1080.00 16	1670.00 17	2750.00 18	3780.00 14
1961	141.00 13	148.00 13	160.00 14	194.00 15	391.00 17	712.00 17	1260.00 17	1300.00 16	2060.00 14	2980.00 10
1962	324.00 23	370.00 21	496.00 21	689.00 21	1160.00 22	2080.00 23	2260.00 23	3930.00 23	5830.00 22	8110.00 22
1963	180.00 18	196.00 18	203.00 16	238.00 16	502.00 19	998.00 19	971.00 15	1040.00 15	2100.00 15	2860.00 9

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## NEOSHO RIVER NEAR COMMERCE, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1940	14400.0 22	11100.0 22	6150.0 23	3880.0 23	2670.0 22	2070.0 22	1560.0 22	1330.0 22	1090.0 21	567.0 21
1941	37600.0 10	34700.0 9	30100.0 9	25100.0 9	14800.0 12	9000.0 14	7730.0 13	7500.0 12	6200.0 10	3960.0 11
1942	62800.0 7	55800.0 7	44500.0 7	33900.0 7	28200.0 5	19200.0 6	13800.0 6	10600.0 7	7770.0 7	7030.0 2
1943	100000.0 2	88500.0 2	70500.0 2	46000.0 2	29800.0 4	20500.0 3	14100.0 5	10900.0 6	8150.0 6	4960.0 6
1944	67100.0 6	63700.0 5	53600.0 5	39800.0 5	33100.0 2	22200.0 2	15700.0 3	12900.0 2	9260.0 3	5090.0 5
1945	69700.0 5	61000.0 6	49400.0 6	39500.0 6	25300.0 7	17600.0 7	13700.0 7	12300.0 4	9260.0 4	6830.0 3
1946	32200.0 12	30800.0 12	28200.0 12	16400.0 16	8880.0 16	4870.0 18	4110.0 18	4230.0 18	3640.0 17	2500.0 17
1947	27600.0 17	27400.0 15	26400.0 13	23200.0 12	16900.0 11	11900.0 10	10400.0 8	9050.0 8	6100.0 11	3400.0 13
1948	91100.0 3	82500.0 3	63600.0 3	45800.0 3	27100.0 6	20300.0 4	14100.0 4	11200.0 5	8420.0 5	4450.0 8
1949	28500.0 14	27600.0 14	24300.0 17	18000.0 15	13700.0 14	10900.0 11	8750.0 11	7680.0 11	7230.0 8	4030.0 10
1950	36500.0 11	34600.0 10	29900.0 10	23500.0 11	17900.0 9	12900.0 9	9670.0 10	8480.0 9	5910.0 12	3390.0 14
1951	251000.0 1	207000.0 1	133000.0 1	84000.0 1	57400.0 1	34000.0 1	27700.0 1	23100.0 1	16900.0 1	8830.0 1
1952	22000.0 20	21500.0 20	17300.0 19	11300.0 18	7510.0 18	6730.0 16	5260.0 16	4480.0 16	4190.0 16	2630.0 16
1953	3540.0 24	2470.0 24	1440.0 24	1090.0 24	985.0 24	828.0 24	706.0 23	599.0 23	449.0 23	246.0 24
1954	27000.0 18	25600.0 18	17900.0 18	9520.0 19	5020.0 19	3080.0 20	2130.0 21	1600.0 21	1060.0 22	539.0 22
1955	22000.0 21	18100.0 21	10700.0 21	5850.0 21	4140.0 21	3600.0 19	2500.0 19	2190.0 19	1720.0 20	1220.0 20
1956	10800.0 23	9500.0 23	7190.0 22	4000.0 22	2060.0 23	1030.0 23	692.0 24	522.0 24	350.0 24	326.0 23
1957	39300.0 8	33300.0 11	29300.0 11	24800.0 10	22300.0 8	14100.0 8	10400.0 9	8090.0 10	5390.0 14	2730.0 15
1958	39000.0 9	36800.0 8	31200.0 8	25600.0 8	17400.0 10	10700.0 12	8210.0 12	7260.0 13	7020.0 9	4050.0 9
1959	31800.0 13	29800.0 13	24800.0 16	15500.0 17	8830.0 17	4970.0 17	5080.0 17	4440.0 17	3440.0 18	2100.0 18
1960	27800.0 16	27200.0 16	26000.0 15	20600.0 13	11300.0 15	8860.0 15	6650.0 15	5770.0 15	4450.0 15	3650.0 12
1961	77100.0 4	73200.0 4	61100.0 4	43900.0 4	29900.0 3	20000.0 5	15900.0 2	12700.0 3	10500.0 2	6690.0 4
1962	27000.0 19	26900.0 17	26400.0 14	18800.0 14	14300.0 13	9480.0 13	7340.0 14	7100.0 14	5850.0 13	4790.0 7
1963	27900.0 15	25200.0 19	14000.0 20	8340.0 20	4850.0 20	2980.0 21	2360.0 20	2130.0 20	1960.0 19	1280.0 19

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

NEOSHO RIVER NEAR COMMERCE, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34				
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS				
1964	4	4	3	1	4	10			1	1	15	54	112	37	13	11	14	11	6	5	7	8	4	15	8	5	4	2	2		2	1	2		360518.4				
1965						5	13	8	5	4	10			6	2	6	20	39	37	39	11	23	12	19	13	25	11	5	21	23	5	2	1		1228129.0				
1966									4	2	8	11	11	22	12	33	72	47	27	28	12	29	12	8	8	14	2	1	2						312684.0				
1967							5	14	48	47	28	16	12	4	8	19	14	19	12	12	13	14	4	8	11	8	10	10	12	7	7	3			771543.0				
1968														4	3	7	14	11	19	33	41	39	55	30	19	20	12	15	17	10	7	6	4		1067624.0				
1969														2	1	5	2	11	14	15	11	37	29	18	44	39	27	39	39	19	11	2			1998497.0				
1970														14	4	9	9	8	50	47	30	23	29	10	19	16	15	12	26	11	8	14	11		1453691.0				
1971															1	4	2	3	10	22	35	51	47	25	23	7	19	24	15	28	17	24	5	3		1073149.0			
1972															4	3	5	30	35	27	45	50	28	33	18	16	13	18	10	13	8	4	3	3		839471.0			
1973															1	14	7	6	10	23	16	14	13	18	15	25	18	24	17	33	33	26	19	30	1	2739965.0			
1974															7	8	9	2	8	5	8	10	11	17	14	24	17	17	44	39	27	35	25	16	17	2	1	2	2486236.0

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	4018	100.0	9	30.00	55	3894	96.9	18	460.0	300	2687	66.9	27	7100	190	679	16.8					
1	2.60	4	4018	100.0	10	40.00	55	3839	95.5	19	620.0	292	2387	59.4	28	9700	197	489	12.1					
2	3.50	4	4014	99.9	11	55.00	99	3784	94.2	20	850.0	199	2095	52.1	29	13000	124	292	7.2					
3	4.80	3	4010	99.8	12	74.00	170	3685	91.7	21	1100.0	283	1896	47.2	30	18000	86	168	4.1					
4	6.50	1	4007	99.7	13	100.00	106	3515	87.5	22	1600.0	165	1613	40.1	31	24000	73	82	2.0					
5	8.80	4	4006	99.7	14	140.00	69	3409	84.8	23	2100.0	183	1448	36.0	32	33000	6	9	.2					
6	12.00	20	4002	99.6	15	180.00	151	3340	83.1	24	2900.0	192	1265	31.5	33	44000	1	3	.0					
7	16.00	27	3982	99.1	16	250.00	213	3189	79.4	25	3900.0	219	1073	26.7	34	60000	2	2	.0					
8	22.00	61	3955	98.4	17	340.00	289	2976	74.1	26	5300.0	175	854	21.3										

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

NEOSHO RIVER NEAR COMMERCE, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL										
1965	14.00	2	14.30	2	16.90	2	17.10	2	21.70	1	59.40	2	106.00	2	99.00	2	638.00	2	1570.00	2
1966	113.00	8	117.00	7	125.00	7	174.00	6	252.00	5	300.00	3	503.00	3	473.00	3	860.00	3	3150.00	4
1967	12.00	1	12.30	1	14.30	1	17.00	1	26.40	2	27.70	1	33.90	1	40.70	1	57.70	1	487.00	1
1968	55.00	3	128.00	8	163.00	8	223.00	9	503.00	10	969.00	10	1020.00	6	1120.00	5	2690.00	9	3430.00	5
1969	86.00	6	91.00	5	106.00	5	137.00	5	207.00	4	500.00	5	1420.00	10	1990.00	9	2630.00	8	3480.00	6
1970	247.00	10	331.00	10	338.00	10	369.00	10	390.00	9	551.00	7	707.00	4	857.00	4	2080.00	6	4600.00	8
1971	74.00	5	77.70	4	79.90	3	104.00	3	144.00	3	320.00	4	1190.00	9	1630.00	8	1340.00	4	4040.00	7
1972	69.00	4	72.70	3	92.10	4	183.00	7	377.00	8	520.00	6	861.00	5	1520.00	7	2440.00	7	3070.00	3
1973	95.00	7	109.00	6	121.00	6	133.00	4	374.00	7	760.00	8	1030.00	7	1460.00	6	1980.00	5	5340.00	9
1974	132.00	9	141.00	9	195.00	8	215.00	8	339.00	6	782.00	9	1120.00	8	2240.00	10	5990.00	10	8630.00	10

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

NEOSHO RIVER NEAR COMMERCE, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL										
1964	39500.0	2	35600.0	2	22400.0	3	13200.0	7	7790.0	10	4750.0	10	3700.0	10	2820.0	10	1900.0	10	985.0	10
1965	34500.0	3	31100.0	4	20200.0	6	16100.0	5	14500.0	5	9470.0	6	7030.0	6	6750.0	5	5490.0	5	3360.0	5
1966	11500.0	11	10600.0	11	7150.0	11	3840.0	11	2400.0	11	2120.0	11	1660.0	11	1400.0	11	1160.0	11	857.0	11
1967	26200.0	9	21900.0	9	19300.0	7	18200.0	4	14600.0	3	10200.0	5	7170.0	5	5820.0	6	4160.0	7	2110.0	9
1968	27300.0	7	26000.0	7	17000.0	8	12800.0	8	9300.0	8	5460.0	8	4840.0	8	4250.0	8	3400.0	8	2920.0	7
1969	27100.0	8	25200.0	8	16700.0	9	15500.0	6	12400.0	6	10900.0	4	10500.0	3	9990.0	3	7870.0	3	5480.0	3
1970	31900.0	6	28800.0	6	21400.0	4	20200.0	3	14500.0	4	11100.0	3	10500.0	4	8300.0	4	5870.0	4	3980.0	4
1971	21300.0	10	19000.0	10	13100.0	10	11300.0	10	10700.0	7	8700.0	7	6980.0	7	5380.0	7	4320.0	6	2940.0	6
1972	32000.0	5	31100.0	5	20700.0	5	12400.0	9	7820.0	9	5070.0	9	3450.0	9	3450.0	9	2800.0	9	2290.0	8
1973	33500.0	4	32000.0	3	28900.0	2	25900.0	1	24500.0	1	20600.0	1	16600.0	1	15300.0	1	12300.0	1	7510.0	1
1974	65000.0	1	59300.0	1	42400.0	1	23200.0	2	16900.0	2	15100.0	2	13600.0	2	11900.0	2	10800.0	2	7360.0	2



## ARKANSAS RIVER BASIN

137

07188000 SPRING RIVER NEAR QUAPAW, OKLA.

LOCATION.--Lat 36°56'04", long 94°44'45", in NE 1/4 SW 1/4 sec.5, T.28 N., R.24 E., Ottawa County, near center of span on downstream side of pier of county road bridge, 0.1 mi (0.2 km) upstream from Rock Creek, 3.0 mi (48 km) southeast of Quapaw, and at mile 13.9 (22.4 km). Records include flow of Rock Creek.

DRAINAGE AREA.--2,510 mi<sup>2</sup> (6,501 km<sup>2</sup>), includes that of Rock Creek.

PERIOD OF RECORD.--July 1939 to September 1974.

AVERAGE DISCHARGE.--35 years (1940-74), 1,956 ft<sup>3</sup>/s (55.4 ft<sup>3</sup>/s).

REMARKS.--Low and medium flow regulated by Riverton Hydroelectric plant, 15 mi (24 km) above station.

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

## SPRING RIVER NEAR QUAPAW, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34		
YEAR	NUMBER OF DAYS IN CLASS																																			CFS-DAYS	
1940										18	11	4	7	4	8	30	27	16	13	7	10	5	1	2	1											144947.0	
1941										4	44	18	21	32	53	46	36	32	28	19	12	5	3	1	1	3	2	2	2			1				583794.0	
1942										1	1	5	7	16	43	48	49	51	47	36	16	13	8	5	11	1	3	4								1461818.0	
1943										1	2	16	31	31	48	75	40	31	26	16	15	8	6	3	4	4	1	3				2	1	1		1533425.0	
1944										6	13	63	78	33	37	33	25	24	18	9	6	6	7	3	2	2	1									656334.0	
1945										6	9	40	58	39	23	19	11	17	26	28	26	19	10	11	7	7	3	4	2							1640237.0	
1946										2	3	12	30	22	31	41	46	54	42	27	20	8	13	6	3	3				2						644035.0	
1947										2	9	29	21	36	32	49	44	30	26	22	18	12	16	6	8			1	1	1	2					729101.0	
1948										4	33	46	43	31	35	25	27	32	29	16	13	11	5	4	1	2	1	2	3	1	2					725819.0	
1949										1	4	6	36	52	34	31	8	27	28	40	36	18	21	12	4	5	2									773881.0	
1950										2	2	19	23	30	30	30	64	51	48	25	22	19	12	4	7	3	1	1	2							1057723.0	
1951														3	32	47	49	35	57	45	29	24	9	9	3	5	3	8	5	2						913973.0	
1952													2	17	39	31	17	29	29	43	47	40	34	12	8	5	4	3	4	2						733240.0	
1953												4	7	29	23	49	78	65	19	14	17	18	21	11	5	2	1	1								164318.0	
1954	12	13	14	11	5	9	14	21	36	66	85	34	12	11	6	5	2	3	1	1	2	1	1													69888.0	
1955										1	10	20	29	30	49	52	48	32	27	20	11	8	10	7	3	3	4	1								591802.0	
1956										6	1	24	15	97	82	42	20	20	14	10	11	4	6	5	6	3										176557.0	
1957										9	4	9	15	24	30	27	33	35	27	17	19	16	12	16	13	10	12	14	8	3	4	4	4			1120669.0	
1958													2	73	77	29	33	23	16	31	21	20	12	10	3	7	2	3	3							644939.0	
1959												6	14	30	65	78	33	44	39	21	9	8	2	3	7	3	1	2								308488.0	
1960												13	18	14	34	19	42	52	57	37	26	15	10	9	7	3	1	1	5	1	2					793054.0	
1961													16	36	44	31	37	21	22	29	38	26	18	13	13	5	3	3	4	1	2	2	1			880653.0	
1962												1	3	20	13	19	20	47	49	83	46	24	12	12	7	4	4	1								525280.0	
1963											6	13	16	35	41	65	43	50	32	29	16	7	6	4	1	1										246626.0	
1964									3	2	10	27	67	67	27	27	34	25	25	15	9	9	5	6	1	1	1	2			2		1			288381.0	
1965										3	2	8	39	31	34	47	30	37	22	33	30	13	11	11	4	2	1	2			3	2				511646.0	
1966													7	37	48	62	43	50	27	39	19	15	5	6	4	3									312484.0		
1967												4	24	30	66	76	36	24	26	35	9	4	7	6	6	5	4	2	1							375479.0	
1968												3	3	14	28	41	58	61	57	32	27	13	9	5	4	7	4									766871.0	
1969												4	23	34	34	25	28	28	51	50	31	15	15	9	8	4	4	2								868604.0	
1970												23	45	99	26	26	15	38	27	18	12	18	3	7	3		1	2			2					576656.0	
1971												2	10	2	16	22	26	33	80	75	53	15	13	8	5	4	1									459008.0	
1972											6	14	33	26	28	57	63	39	19	27	16	9	7	10	2	4	3			1	2					391660.0	
1973												3	13	16				27	23	24	34	46	35	44	30	13	19	7	11	16	3	1				1861835.0	
1974																		1	37	39	46	60	54	38	36	14	13	9	3	2	4	5	2	2			1459373.0

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	12784	100.0	9	67.00	139	12636	98.8	18	1000.0	1257	5119	40.0	27	16000	84	234	1.8
1	5.80	12	12784	100.0	10	90.00	266	12497	97.8	19	1400.0	1032	3862	30.2	28	22000	72	150	1.1
2	7.90	13	12772	99.9	11	120.00	716	12231	95.7	20	1900.0	786	2830	22.1	29	30000	36	78	.6
3	11.00	14	12759	99.8	12	170.00	786	11515	90.1	21	2600.0	601	2044	16.0	30	40000	30	42	.3
4	14.00	11	12745	99.7	13	230.00	986	10729	83.9	22	3500.0	439	1443	11.3	31	55000	8	12	.0
5	20.00	5	12734	99.6	14	310.00	1284	9743	76.2	23	4800.0	318	1004	7.9	32	74000	2	4	.0
6	27.00	12	12729	99.6	15	420.00	1106	8459	66.2	24	6500.0	208	686	5.4	33	100000	1	2	.0
7	36.00	35	12717	99.5	16	560.00	1151	7353	57.5	25	8800.0	149	478	3.7	34	140000	1	1	
8	49.00	46	12682	99.2	17	760.00	1083	6202	48.5	26	12000.0	95	329	2.6					



## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## SPRING RIVER NEAR GUAPAW, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1941	114.00 16	122.00 10	129.00 10	134.00 9	138.00 8	157.00 6	281.00 13	369.00 15	467.00 12	701.00 6
1942	148.00 20	179.00 19	196.00 19	245.00 19	265.00 19	340.00 20	744.00 28	947.00 28	2410.00 33	3710.00 32
1943	195.00 28	317.00 30	436.00 31	534.00 33	772.00 34	906.00 32	1620.00 33	1790.00 33	2030.00 31	2670.00 24
1944	193.00 25	210.00 22	274.00 26	322.00 26	373.00 25	412.00 24	416.00 17	479.00 20	481.00 13	3610.00 31
1945	173.00 23	242.00 27	276.00 27	324.00 27	411.00 28	442.00 26	493.00 22	480.00 21	943.00 22	2270.00 22
1946	287.00 32	415.00 33	469.00 33	503.00 31	553.00 31	740.00 31	1390.00 32	1710.00 32	2170.00 32	4500.00 33
1947	96.00 12	145.00 17	158.00 14	176.00 16	184.00 12	210.00 12	246.00 12	316.00 12	724.00 18	1240.00 14
1948	93.00 10	133.00 13	163.00 15	171.00 14	190.00 13	219.00 13	224.00 8	235.00 8	253.00 5	1800.00 16
1949	110.00 15	219.00 23	259.00 24	275.00 23	301.00 22	362.00 23	438.00 18	437.00 18	1130.00 25	2750.00 25
1950	122.00 17	182.00 20	273.00 25	307.00 25	405.00 26	481.00 27	681.00 27	933.00 27	999.00 23	1920.00 18
1951	248.00 30	313.00 29	339.00 29	380.00 29	410.00 27	419.00 25	459.00 20	572.00 23	1860.00 30	2940.00 26
1952	402.00 34	434.00 34	523.00 34	578.00 34	739.00 33	1360.00 34	1960.00 34	2390.00 34	2810.00 34	3210.00 28
1953	87.00 8	134.00 14	157.00 13	168.00 13	170.00 11	182.00 9	198.00 7	198.00 6	213.00 4	528.00 3
1954	30.00 2	39.30 4	58.90 4	65.60 4	70.70 3	76.40 2	87.50 2	94.70 2	105.00 1	346.00 1
1955	5.80 1	6.20 1	7.26 1	8.51 1	9.73 1	24.60 1	28.60 1	79.40 1	263.00 6	1100.00 12
1956	81.00 6	85.30 6	107.00 7	113.00 6	124.00 5	153.00 5	154.00 5	159.00 5	320.00 8	812.00 7
1957	36.00 4	39.00 3	45.60 3	50.90 2	57.10 2	77.90 3	99.90 3	134.00 4	167.00 3	595.00 4
1958	193.00 26	240.00 26	252.00 23	267.00 22	303.00 24	307.00 17	312.00 14	342.00 13	347.00 11	3250.00 29
1959	181.00 24	205.00 21	240.00 21	252.00 20	270.00 20	296.00 16	449.00 19	432.00 17	581.00 15	1820.00 17
1960	104.00 14	104.00 8	117.00 8	126.00 8	161.00 9	241.00 14	462.00 21	474.00 19	680.00 17	1960.00 20
1961	130.00 19	134.00 15	143.00 11	157.00 11	167.00 10	201.00 10	232.00 11	259.00 10	329.00 10	828.00 8
1962	254.00 31	338.00 31	456.00 32	517.00 32	734.00 32	1090.00 33	1280.00 33	1470.00 31	1520.00 28	2970.00 27
1963	95.00 11	122.00 11	148.00 12	166.00 12	210.00 15	358.00 22	541.00 24	559.00 22	784.00 21	993.00 10
1964	34.00 3	34.70 2	42.90 2	63.10 3	75.00 4	87.30 4	102.00 4	106.00 3	116.00 2	357.00 2
1965	58.00 5	87.70 7	106.00 6	120.00 7	129.00 7	165.00 7	230.00 10	235.00 7	294.00 7	962.00 9
1966	127.00 18	141.00 16	169.00 16	174.00 15	226.00 16	268.00 15	360.00 15	424.00 16	531.00 14	1520.00 15
1967	92.00 9	128.00 12	176.00 17	187.00 17	192.00 14	207.00 11	229.00 9	253.00 9	323.00 9	656.00 5
1968	152.00 21	228.00 25	251.00 22	286.00 24	301.00 23	342.00 21	508.00 23	1040.00 29	1210.00 26	2170.00 21
1969	194.00 27	265.00 28	307.00 28	357.00 28	433.00 29	602.00 29	639.00 26	733.00 25	1370.00 27	2490.00 23
1970	216.00 29	221.00 24	231.00 20	259.00 21	299.00 21	323.00 19	368.00 16	368.00 14	661.00 16	1090.00 11
1971	170.00 22	175.00 18	188.00 18	203.00 18	245.00 18	312.00 18	751.00 29	933.00 26	1120.00 24	1940.00 19
1972	102.00 13	111.00 9	128.00 9	145.00 10	227.00 17	533.00 28	630.00 25	652.00 24	779.00 20	1180.00 13
1973	82.00 7	85.00 5	92.60 5	106.00 5	126.00 6	171.00 8	187.00 6	283.00 11	754.00 19	3420.00 30
1974	380.00 33	380.00 32	396.00 30	432.00 30	539.00 30	740.00 30	862.00 30	1260.00 30	1750.00 29	4830.00 34

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## SPRING RIVER NEAR GUAPAW, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1940	7460.0 34	4920.0 34	2420.0 35	1270.0 35	1020.0 34	827.0 34	741.0 34	665.0 34	623.0 34	396.0 34
1941	57600.0 6	43200.0 8	29400.0 8	15900.0 10	8830.0 13	5480.0 12	3900.0 19	3050.0 21	2500.0 19	1600.0 21
1942	52800.0 7	47200.0 6	31400.0 7	18500.0 8	16800.0 3	11000.0 5	8110.0 5	6430.0 6	4980.0 6	4000.0 5
1943	169000.0 1	132000.0 1	80200.0 1	50800.0 1	29500.0 1	16500.0 1	11600.0 1	9240.0 1	7010.0 3	4200.0 3
1944	33800.0 16	21200.0 20	12400.0 22	7240.0 25	6500.0 20	5050.0 15	3930.0 18	3920.0 15	3010.0 17	1790.0 17
1945	64800.0 4	57100.0 4	41200.0 3	25800.0 2	15700.0 5	12700.0 4	10800.0 2	9700.0 1	7070.0 2	4490.0 2
1946	33500.0 18	24900.0 17	13300.0 21	7810.0 24	5010.0 24	3400.0 23	2580.0 24	2790.0 22	2500.0 20	1780.0 18
1947	51400.0 8	42600.0 10	22800.0 12	12600.0 15	9440.0 11	6780.0 10	5400.0 10	4520.0 10	3180.0 15	2000.0 14
1948	63800.0 5	55700.0 5	38100.0 4	19900.0 7	11900.0 7	8370.0 7	5900.0 9	4710.0 9	3650.0 11	1980.0 16
1949	20400.0 25	11400.0 25	11400.0 23	8040.0 22	6690.0 18	4720.0 19	4200.0 15	3910.0 16	3650.0 12	2120.0 12
1950	49600.0 9	44900.0 7	28500.0 9	15600.0 11	9420.0 12	7930.0 8	6250.0 8	5310.0 8	4010.0 8	2900.0 7
1951	33800.0 17	29900.0 16	20500.0 15	14200.0 12	9680.0 10	5470.0 13	4870.0 12	3990.0 13	3660.0 10	2500.0 8
1952	28000.0 20	23700.0 18	14900.0 17	10000.0 17	6870.0 17	4730.0 16	4240.0 14	3960.0 14	3410.0 13	2000.0 15
1953	9400.0 29	6660.0 29	4010.0 31	2810.0 30	1990.0 31	1540.0 31	1240.0 31	1000.0 31	741.0 32	450.0 33
1954	5410.0 35	3540.0 35	2440.0 34	1540.0 34	925.0 35	604.0 35	448.0 35	364.0 35	281.0 35	191.0 35
1955	27200.0 21	20200.0 21	11000.0 24	6430.0 26	3930.0 26	2630.0 26	2180.0 26	2060.0 24	2000.0 23	1620.0 20
1956	8480.0 31	5390.0 33	3100.0 33	2040.0 33	1970.0 32	1470.0 32	1140.0 32	919.0 33	653.0 33	482.0 32
1957	47300.0 11	40900.0 11	31800.0 6	23400.0 6	20300.0 2	12800.0 2	10400.0 3	8450.0 4	5870.0 4	3070.0 6
1958	28700.0 19	20000.0 22	13700.0 19	10900.0 16	8610.0 14	4940.0 16	3790.0 20	3400.0 18	3100.0 16	1770.0 19
1959	15500.0 27	12000.0 27	7950.0 27	4610.0 27	3230.0 27	2160.0 27	1730.0 28	1480.0 30	1220.0 30	845.0 29
1960	47800.0 10	42800.0 9	28400.0 10	19900.0 5	11300.0 9	6710.0 11	5020.0 11	4130.0 11	3240.0 14	2170.0 11
1961	65400.0 3	57500.0 3	41800.0 2	24500.0 3	15900.0 3	9300.0 6	6850.0 6	5570.0 7	4280.0 7	2410.0 9
1962	14600.0 28	9960.0 28	5400.0 28	3610.0 28	2410.0 29	2050.0 29	1870.0 27	1760.0 27	1750.0 24	1440.0 23
1963	7600.0 33	5630.0 31	3700.0 32	2250.0 32	1550.0 33	1190.0 33	916.0 33	933.0 32	793.0 31	676.0 31
1964	43700.0 12	32900.0 14	16400.0 16	8640.0 18	4920.0 25	2770.0 25	2590.0 23	2040.0 25	1450.0 28	788.0 30
1965	36600.0 15	32900.0 15	23500.0 11	13000.0 13	7410.0 16	4580.0 21	3990.0 17	3290.0 20	2330.0 22	1400.0 24
1966	7830.0 32	5490.0 32	4400.0 29	2980.0 29	2840.0 28	2090.0 28	1670.0 30	1700.0 28	1330.0 29	856.0 28
1967	18100.0 26	12300.0 26	9280.0 26	7970.0 23	5570.0 21	3670.0 22	2900.0 22	2450.0 23	1750.0 25	1030.0 27
1968	20900.0 24	17800.0 24	14100.0 18	8340.0 20	5030.0 23	4590.0 20	3750.0 21	3470.0 17	2960.0 18	2100.0 13
1969	23100.0 23	18800.0 23	11000.0 25	8350.0 19	6600.0 19	4840.0 17	4460.0 13	4020.0 12	3880.0 9	2380.0 10
1970	40900.0 14	35400.0 13	21800.0 13	12800.0 14	8220.0 15	5220.0 14	4030.0 16	3380.0 19	2460.0 21	1580.0 22
1971	9160.0 30	6440.0 30	4050.0 30	2660.0 31	2130.0 30	1780.0 30	1690.0 29	1610.0 29	1530.0 27	1260.0 25
1972	25600.0 22	22600.0 19	13300.0 20	8060.0 21	5320.0 22	3050.0 24	2260.0 25	1860.0 26	1610.0 26	1070.0 26
1973	43200.0 13	36400.0 12	21700.0 14	17900.0 9	13700.0 8	12700.0 3	10300.0 4	9290.0 2	7830.0 1	5100.0 1
1974	73100.0 2	60800.0 2	36300.0 5	19900.0 6	11700.0 8	7370.0 9	6330.0 7	7240.0 5	5570.0 5	4000.0 4

## MONTHLY DURATION TABLE

SPRING CREEK NEAR GUAPAN, OKLAHOMA

PERIOD 1939-1974

CLASS LIMIT	TOTAL PERCENT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
0.00	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
5.80	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
7.90	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.6	100.0	99.2	100.0	100.0
11.00	99.8	100.0	100.0	100.0	100.0	100.0	100.0	99.4	99.6	98.7	100.0	100.0	100.0
14.00	99.7	100.0	100.0	100.0	100.0	100.0	100.0	99.1	99.4	97.9	100.0	100.0	100.0
20.00	99.6	100.0	100.0	100.0	100.0	100.0	100.0	98.9	98.6	97.8	100.0	100.0	100.0
27.00	99.6	100.0	100.0	100.0	100.0	100.0	100.0	98.8	98.2	97.8	100.0	100.0	100.0
36.00	99.5	100.0	100.0	100.0	100.0	100.0	100.0	98.3	98.0	97.8	99.7	99.9	100.0
49.00	99.2	100.0	100.0	100.0	100.0	100.0	100.0	97.9	97.6	96.9	98.3	99.8	100.0
67.00	98.8	99.6	99.5	99.7	99.9	100.0	99.9	97.5	97.3	96.1	97.4	99.7	99.4
90.00	97.8	99.0	99.1	98.8	99.5	99.9	99.5	96.8	95.9	92.4	94.2	99.0	99.2
120.00	95.7	96.2	97.4	96.9	98.9	99.9	99.0	95.8	92.9	89.8	90.6	94.3	96.6
170.00	90.1	87.6	91.7	92.6	96.7	99.3	97.8	92.5	85.8	82.4	79.3	86.8	88.8
230.00	83.9	82.2	85.6	90.0	94.2	98.0	95.3	87.6	73.7	72.8	72.1	77.6	78.2
310.00	76.2	72.3	78.5	88.6	92.5	95.3	90.7	79.4	60.6	62.3	62.5	66.3	66.3
420.00	66.2	63.3	66.4	80.9	87.9	91.1	84.1	68.6	45.6	48.3	52.3	53.4	52.4
560.00	57.5	54.2	56.4	75.4	83.0	85.4	77.7	57.3	31.6	38.0	44.1	43.6	43.7
760.00	48.5	45.1	49.0	68.9	73.1	77.8	67.5	44.5	19.8	28.9	35.5	36.3	36.1
1000.00	40.0	35.3	39.5	61.9	63.7	65.2	57.1	32.4	13.2	23.0	28.3	31.5	29.8
1400.00	30.2	25.4	31.6	45.3	51.2	47.1	44.7	22.1	8.6	17.9	21.9	24.7	22.6
1900.00	22.1	17.4	24.2	30.8	36.3	35.7	35.3	16.2	5.3	13.6	16.9	19.1	15.6
2600.00	16.0	11.2	15.5	21.9	25.8	26.6	26.6	12.6	3.7	10.6	12.8	14.8	10.2
3500.00	11.3	7.6	9.2	16.1	18.7	18.9	18.7	9.2	2.0	7.9	9.7	10.7	6.9
4800.00	7.9	5.0	6.4	10.8	13.5	13.5	13.0	7.1	1.4	5.5	7.4	6.9	4.1
6500.00	5.4	2.9	3.5	7.4	9.2	9.3	9.5	4.8	1.0	3.5	5.4	5.0	2.9
8800.00	3.7	1.8	2.3	5.2	7.1	6.9	6.1	3.5	0.6	2.4	3.6	3.5	1.8
12000.00	2.6	1.2	1.7	3.0	4.7	4.9	4.9	2.1	0.6	1.6	2.8	2.2	1.2
16000.00	1.8	0.4	1.0	1.8	4.0	3.7	3.4	1.5	0.5	1.0	1.9	1.8	0.9
22000.00	1.2	0.2	0.5	1.1	2.9	2.7	2.4	0.7	0.4	0.4	1.2	1.0	0.6
30000.00	0.6	0.0	0.1	0.5	1.2	1.9	1.5	0.2	0.3	0.3	0.7	0.5	0.1
40000.00	0.3	0.0	0.0	0.3	0.7	1.3	0.7	0.0	0.2	0.2	0.5	0.2	0.0
55000.00	0.1	0.0	0.0	0.2	0.3	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0
74000.00	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100000.00	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140000.00	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0

## STATISTICS OF ANNUAL DISCHARGE FOR WATER YEARS, 1940-74

Units of annual Discharge	Mean	Standard Deviation	Coefficient of Variation	Skew Coefficient	First Order Serial Correlation Coefficient
CFS	1.956	1,227	0.63	0.91	0.30
LOGS of CFS	3.194	0.322		-0.804	0.302

## ARKANSAS RIVER BASIN

07188500 LOST CREEK AT SENECA, MO.

LOCATION.--Lat 36°50'28", long 94°36'30", in SE 1/4 SE 1/4 sec.35, T.25 N., R.34 W., on left bank on downstream side of Seneca Street Bridge in Seneca, 0.5 mi (0.8 km) upstream from Little Lost Creek and 9.5 mi (15.3 km) upstream from mouth.

DRAINAGE AREA.--42 mi<sup>2</sup> (109 km<sup>2</sup>).

PERIOD OF RECORD.--October 1948 to September 1959.

AVERAGE DISCHARGE.--11 years (1949-50), 28.1 ft<sup>3</sup>/s (0.80 m<sup>3</sup>/s).

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

## LOST CREEK NEAR SENECA, MISSOURI

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS	
1949																																				12727.0
1950																																				16254.5
1951																																				16353.2
1952													7	33	23	29	19	48	55	59	40	20	14	9	6	3	1									10141.8
1953												10	30	121	50	43	16	15	14	19	15	11	10	9	1	1									4491.9	
1954												31	104	78	18	22	8	3	2	2	2	1	1	1	1										1635.3	
1955												5	50	35	44	39	36	33	44	29	15	12	9	6	4	4									7300.3	
1956																																				2058.1
1957																																				22902.5
1958																																				11347.7
1959																																				7542.4

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	4017	100.0	9	2.50	118	3826	95.2	18	26.0	294	1157	28.8	27	280	11	28	.6					
1	0.30	1	4017	100.0	10	3.20	228	3708	92.3	19	34.0	261	863	21.5	28	360	8	17	.4					
2	0.40	5	4016	100.0	11	4.10	368	3480	86.6	20	44.0	193	602	15.0	29	470	3	9	.2					
3	0.50	15	4011	99.9	12	5.40	292	3112	77.5	21	57.0	131	409	10.2	30	610	1	6	.1					
4	0.70	28	3996	99.5	13	7.00	411	2820	70.2	22	74.0	92	278	6.9	31	790								
5	0.90	22	3968	98.8	14	9.10	331	2409	60.0	23	97.0	63	186	4.6	32	1000	2	5	.1					
6	1.10	38	3946	98.2	15	12.00	300	2078	51.7	24	130.0	43	123	3.1	33	1300	1	3	.0					
7	1.50	40	3908	97.3	16	15.00	307	1778	44.3	25	160.0	27	80	2.0	34	1700	2	2	.0					
8	1.90	42	3868	96.3	17	20.00	314	1471	36.6	26	210.0	25	53	1.3										

## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## LOST CREEK NEAR SENECA, MISSOURI

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1950	6.80 8	6.97 8	7.50 8	7.96 8	8.59 8	11.00 8	13.50 9	14.70 8	15.60 8	30.60 7
1951	9.20 9	9.47 9	9.66 9	10.30 9	10.60 9	11.20 9	12.60 8	15.60 9	38.80 10	51.40 9
1952	11.00 10	11.00 10	11.40 10	12.10 10	14.50 10	17.60 10	18.30 10	24.90 10	29.70 9	43.90 8
1953	4.10 5	4.60 5	4.60 5	5.01 5	5.04 5	5.32 5	5.59 5	5.62 4	13.40 5	
1954	2.60 3	2.60 3	2.71 3	2.98 3	3.34 4	3.45 3	3.58 3	3.86 3	4.05 2	10.30 2
1955	0.30 1	0.37 1	0.41 1	0.49 1	0.74 1	1.00 1	1.23 1	2.42 2	4.71 3	12.70 3
1956	2.60 4	2.67 4	2.79 4	3.03 4	3.13 3	3.85 4	4.07 4	4.37 4	6.06 5	12.70 4
1957	0.60 2	0.63 2	0.64 2	0.69 2	0.78 2	1.10 2	1.45 2	1.86 1	2.39 1	6.80 1
1958	6.30 7	6.30 7	6.39 7	6.48 7	7.17 7	7.64 7	7.60 7	8.13 7	8.60 6	68.10 10
1959	5.50 6	5.80 6	5.94 6	6.01 6	6.20 6	6.61 6	7.24 6	7.76 6	10.20 7	29.60 6

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## LOST CREEK NEAR SENECA, MISSOURI

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1949	283.0 6	234.0 5	171.0 5	118.0 5	91.9 5	72.3 4	65.0 4	64.4 4	57.3 4	34.9 4
1950	1190.0 3	755.0 3	439.0 3	260.0 3	180.0 2	108.0 2	89.2 2	78.1 2	63.9 3	44.5 3
1951	1740.0 2	868.0 2	491.0 2	286.0 2	174.0 3	101.0 3	78.5 3	67.3 3	67.8 2	44.8 2
1952	188.0 7	131.0 7	112.0 7	90.9 6	70.7 6	51.5 6	42.0 6	38.5 6	39.8 6	27.7 6
1953	101.0 9	87.7 9	68.7 9	59.4 9	47.5 8	36.7 9	32.3 8	26.7 9	19.6 9	12.3 9
1954	87.0 10	41.0 10	27.1 10	16.8 11	11.4 11	9.0 11	7.4 11	6.5 11	5.6 11	4.5 11
1955	142.0 8	129.0 8	96.9 8	69.3 8	47.4 9	37.0 8	28.9 9	31.9 8	27.5 8	20.0 8
1956	44.0 11	37.7 11	26.6 11	18.5 10	13.3 10	9.5 10	8.1 10	7.2 10	6.1 10	5.6 10
1957	2460.0 1	1120.0 1	881.0 1	574.0 1	419.0 1	278.0 1	220.0 1	175.0 1	121.0 1	62.7 1
1958	508.0 4	285.0 4	212.0 4	136.0 4	103.0 4	70.9 5	54.3 5	52.3 5	52.5 5	31.1 5
1959	358.0 5	173.0 6	122.0 6	82.1 7	52.5 7	43.2 7	40.8 7	35.3 7	30.2 7	20.7 7

## STATISTICS OF ANNUAL DISCHARGE FOR WATER YEARS, 1949-59

Units of annual Discharge	Mean	Standard Deviation	Coefficient of Variation	Skew Coefficient	First Order Serial Correlation Coefficient
CFS	28.1	18.0	0.64	0.46	0.14
LOGS of CFS	1.335	0.369		-0.870	0.135

## ARKANSAS RIVER BASIN

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07189000 ELK RIVER NEAR TIFF CITY, MO.

LOCATION.--Lat 36°37'50", long 94°35'12", in NE 1/4 sec.22, T.22 N., R.34 W., McDonald County, on downstream side of right pier of bridge on State Highway 43, 0.8 mi (1.3 km) downstream from Blackfoot Branch, 2.8 mi (4.5 km) upstream from Buffalo Creek, 3.0 mi (4.8 km) southeast of Tiff City, and at mile 15.8 (25.4 km).

DRAINAGE AREA.--872 mi<sup>2</sup> (2,258 km<sup>2</sup>).

PERIOD OF RECORD.--October 1939 to September 1974.

AVERAGE DISCHARGE.--35 years (1940-74), 795 ft<sup>3</sup>/s (22.5 m<sup>3</sup>/s).

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

ELK RIVER NEAR TIFF CITY CITY, MISSOURI

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34				
YEAR	NUMBER OF DAYS IN CLASS																																						
1940							1			6	25	61	68	84	35	21	13	14	12	8	6	3	2	3	2		1	1							CFS_DAYS 88237.0				
1941											7	35	49	31	10	42	43	38	18	19	24	22	8	5	4	1	3	2			2	1		1	303746.0				
1942												4	15	26	28	39	33	48	33	32	43	19	20	12	5	1	2	2	1	1				377259.0					
1943											4	22	27	24	40	30	43	33	22	26	22	15	12	9	13	6	5	4	3			2		3	559462.0				
1944												3	36	46	74	27	28	16	29	30	26	13	14	9	7	3	2	1	2					290120.0					
1945												1	41	64	46	15	21	12	13	8	13	21	26	32	16	13	9	1	7	2	2	1	1	650675.0					
1946												15	22	12	12	43	20	27	56	33	34	30	18	20	12	6	3	1			1			306622.0					
1947												4	38	40	14	30	24	30	42	37	18	19	20	10	13	10	5	3	2	2	3	1			299446.0				
1948												13	41	43	23	18	35	28	24	29	27	21	22	10	8	12	6	4	2					235603.0					
1949													3	59	31	22	36	23	28	41	23	34	27	12	13	8	1	3	1					305780.0					
1950													4	15	28	20	30	42	33	48	52	30	24	16	4	7	5			2	1	3	1	528126.0					
1951														6	45	56	44	40	35	32	29	36	11	14	5	3	1	4	1	2	1			303188.0					
1952													9	13	38	19	27	20	35	42	35	49	39	7	11	12	5	4	1					284823.0					
1953													22	78	51	36	19	8	13	18	11	11	14	7	9	2	3	1						129767.0					
1954	10	19	27	21								9	7	5	19	93	61	23	18	26	9	3	3	2	1	1	3	1						49219.6					
1955												2	5	7	24	45	20	24	19	29	32	33	40	24	15	15	8	5	3	4	1	1	1		208841.0				
1956												3	16	13	57	93	55	35	10	22	14	14	11	6	4	6	2	1			1			116791.0					
1957												6	13	11	2	9	8	14	44	25	28	20	25	24	21	15	18	13	11	9	15	13	9	4	2	1	539013.0		
1958																35	33	50	58	31	23	18	30	18	17	13	13	8	4	8	3	1	2		287012.0				
1959													1	9	12	23	93	43	45	31	30	21	14	11	14	5	8	2	1	1	1			144017.0					
1960														10	16	8	18	40	42	58	45	31	23	29	14	12	8	4	3	4	1			283082.0					
1961														22	32	39	13	13	27	46	48	35	25	18	12	11	6	8	2	1	2	1	1	2	1	347197.0			
1962														14	8	12	12	25	32	63	52	53	42	34	10	7	1							219637.0					
1963														4	32	22	13	9	18	27	43	50	49	38	21	10	12	4	2	2	3	2			166565.0				
1964														26	27	73	43	21	41	23	36	30	17	7	6	2	2	2	2				1	1	110162.0				
1965															11	40	28	46	26	48	34	32	37	18	9	13	5	2	3	1	2	1	1	1	1	234967.0			
1966															4	16	83	51	24	37	27	19	28	18	12	19	9	7	4	2	3	1		1	183450.0				
1967															5	21	32	51	49	70	40	30	18	15	15	7	6	3	1	2				72099.0					
1968																4	2	20	21	44	28	46	41	40	30	30	16	14	7	8	5	5	3	1	1	366861.0			
1969																16	22	27	21	21	10	26	35	39	39	49	21	17	8	4	3	3	2	1	1	346677.0			
1970																2	15	12	56	25	61	31	20	31	39	24	17	11	11	5	1	1			234696.0				
1971																1	18	14	31	19	12	13	12	57	62	37	23	32	16	7	3	4	1	2	1	239896.0			
1972																	9	31	71	51	53	50	23	16	14	6	11	11	8	3	4	2	1	1	1	139194.0			
1973																		12	9	18		33	16	20	11	31	32	36	37	30	29	18	12	10	5	2	2	2	642860.0
1974																			29	57	23	20	53	43	52	30	23	12	4	4	2	2	3	4	1	2	1	563074.0	

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	12784	100.0	9	48.00	431	12418	97.1	18	600.0	886	4042	31.6	27	7400	38	130	1.0
1	5.10	10	12784	100.0	10	63.00	731	11987	93.8	19	790.0	755	3156	24.7	28	9800	37	92	.7
2	6.70	19	12774	99.9	11	84.00	910	11256	88.0	20	1000.0	806	2401	18.8	29	13000	19	55	.4
3	8.90	27	12755	99.8	12	110.00	1155	10346	80.9	21	1400.0	436	1595	12.5	30	17000	16	36	.2
4	12.00	21	12728	99.6	13	150.00	917	9191	71.9	22	1800.0	387	1159	9.1	31	23000	11	20	.1
5	16.00	16	12707	99.4	14	190.00	1219	8274	64.7	23	2400.0	269	772	6.0	32	30000	4	9	.0
6	21.00	39	12691	99.3	15	260.00	941	7055	55.2	24	3200.0	168	503	3.9	33	40000	4	5	.0
7	27.00	83	12652	99.0	16	340.00	1046	6114	47.8	25	4200.0	116	335	2.6	34	53000	1	1	
8	36.00	151	12569	98.3	17	450.00	1026	5068	39.6	26	5600.0	89	219	1.7					

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## ELK RIVER NEAR TIFF CITY CITY, MISSOURI

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1941	48.00 11	54.70 13	64.90 15	66.40 14	68.30 11	81.30 10	132.00 18	157.00 16	158.00 12	474.00 10
1942	75.00 21	81.00 22	86.00 22	92.00 21	97.20 20	114.00 21	127.00 16	174.00 27	511.00 27	1200.00 29
1943	93.00 24	96.30 24	104.00 24	121.00 26	161.00 27	180.00 27	180.00 24	211.00 21	464.00 25	858.00 21
1944	75.00 22	76.70 21	82.00 21	92.30 22	103.00 22	113.00 20	136.00 20	152.00 15	183.00 16	1390.00 30
1945	96.00 25	117.00 28	121.00 27	126.00 27	138.00 26	161.00 25	165.00 23	167.00 20	239.00 19	1060.00 26
1946	141.00 32	147.00 32	150.00 32	171.00 33	209.00 33	277.00 32	479.00 34	668.00 34	745.00 33	1680.00 33
1947	63.00 16	64.30 19	71.90 18	73.20 18	74.70 14	83.50 12	103.00 11	158.00 17	366.00 21	681.00 16
1948	56.00 14	59.00 14	59.70 12	60.60 11	64.60 9	73.20 8	79.90 7	82.00 6	99.70 6	670.00 14
1949	125.00 29	125.00 29	126.00 29	129.00 28	134.00 25	198.00 29	190.00 25	223.00 23	493.00 26	823.00 20
1950	103.00 26	106.00 25	112.00 26	117.00 25	147.00 27	215.00 31	285.00 30	291.00 28	374.00 22	912.00 23
1951	151.00 33	151.00 33	156.00 33	166.00 32	168.00 32	187.00 28	223.00 28	270.00 26	712.00 32	1470.00 31
1952	131.00 30	134.00 30	141.00 30	157.00 30	201.00 32	280.00 33	354.00 32	458.00 32	642.00 30	885.00 22
1953	66.00 19	67.00 17	73.00 19	77.60 19	85.40 18	91.50 14	112.00 13	114.00 9	137.00 9	418.00 8
1954	20.00 3	20.30 3	22.30 3	24.10 3	29.90 3	34.70 3	40.80 3	45.00 3	51.00 2	223.00 2
1955	5.10 1	5.23 1	5.61 1	6.31 1	7.61 1	9.88 1	11.30 1	27.10 1	75.80 3	382.00 6
1956	26.00 4	26.70 4	29.30 4	34.60 5	47.70 6	60.70 6	64.10 5	71.20 5	88.30 4	339.00 5
1957	18.00 2	18.30 2	21.70 2	21.90 2	24.70 2	31.70 2	42.50 4	62.10 4	126.00 8	475.00 11
1958	88.00 23	89.30 23	91.30 23	92.30 23	96.70 19	111.00 18	126.00 15	136.00 12	152.00 10	1500.00 32
1959	108.00 27	108.00 26	108.00 25	111.00 24	113.00 24	133.00 22	139.00 21	139.00 13	167.00 13	693.00 17
1960	47.00 10	48.70 9	52.90 9	59.90 10	83.00 17	113.00 19	162.00 22	227.00 24	432.00 24	592.00 12
1961	69.00 20	69.00 20	70.10 17	70.80 16	75.70 15	82.40 11	98.70 9	119.00 10	185.00 17	604.00 13
1962	232.00 30	233.00 34	236.00 34	246.00 34	310.00 34	374.00 34	445.00 33	493.00 33	538.00 28	1090.00 27
1963	64.00 17	66.30 16	69.60 16	73.10 17	97.50 21	143.00 23	213.00 27	352.00 30	597.00 29	676.00 15
1964	31.00 5	31.00 5	31.10 5	31.50 4	33.10 4	37.40 4	39.30 2	44.00 2	49.30 1	123.00 1
1965	46.00 8	47.00 7	48.90 7	52.70 7	69.30 12	100.00 17	134.00 19	126.00 11	169.00 14	400.00 7
1966	55.00 13	56.30 12	60.30 13	64.80 13	70.00 13	92.30 15	132.00 17	151.00 14	156.00 11	782.00 18
1967	46.00 9	49.00 10	53.70 10	56.60 9	59.40 7	67.90 7	78.90 6	85.10 7	98.70 5	288.00 4
1968	33.00 6	35.30 6	36.40 6	39.20 6	42.70 5	57.40 5	98.90 10	159.00 16	215.00 18	810.00 19
1969	113.00 28	116.00 27	122.00 28	133.00 29	150.00 28	169.00 26	210.00 26	255.00 25	409.00 23	1010.00 25
1970	61.00 15	62.00 15	64.30 14	70.00 15	76.00 16	93.10 16	123.00 14	164.00 19	170.00 15	448.00 9
1971	66.00 18	67.30 18	73.00 20	79.60 20	104.00 23	154.00 24	295.00 31	426.00 31	698.00 31	949.00 24
1972	46.00 7	48.00 8	50.60 8	53.40 8	60.00 8	75.90 9	81.30 8	86.90 8	114.00 7	332.00 4
1973	54.00 12	55.70 11	57.30 11	64.20 12	68.30 10	85.20 13	105.00 12	219.00 22	306.00 20	1170.00 28
1974	137.00 31	140.00 31	144.00 31	161.00 31	190.00 31	212.00 30	245.00 29	299.00 29	781.00 34	1730.00 34

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## ELK RIVER NEAR TIFF CITY CITY, MISSOURI

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1940	6730.0 28	4720.0 30	2800.0 33	1600.0 33	1310.0 33	795.0 33	592.0 33	477.0 33	388.0 33	241.0 33
1941	6860.0 1	3060.0 2	1950.0 2	1010.0 3	535.0 5	300.0 7	211.0 9	185.0 9	146.0 10	83.0 13
1942	2930.0 8	1820.0 9	992.0 9	563.0 9	370.0 10	253.0 11	191.0 12	154.0 14	139.0 13	103.0 7
1943	5250.0 2	3510.0 1	1770.0 3	1650.0 3	974.0 1	567.0 3	411.0 3	320.0 4	241.0 4	153.0 4
1944	1280.0 18	882.0 18	560.0 17	334.0 17	294.0 13	230.0 14	201.0 10	178.0 10	135.0 14	79.0 16
1945	4590.0 3	3000.0 3	1770.0 4	994.0 4	725.0 3	574.0 2	487.0 2	440.0 1	314.0 1	178.0 1
1946	1090.0 21	632.0 23	445.0 22	320.0 19	200.0 21	155.0 21	131.0 22	142.0 18	122.0 17	84.0 11
1947	1690.0 15	1020.0 16	654.0 15	406.0 16	340.0 12	241.0 12	180.0 15	147.0 17	131.0 16	82.0 15
1948	7370.0 27	526.0 26	373.0 25	245.0 25	194.0 22	173.0 20	134.0 21	119.0 21	111.0 19	64.0 21
1949	895.0 24	684.0 22	485.0 20	310.0 22	240.0 18	176.0 19	157.0 19	152.0 15	141.0 11	83.0 12
1950	3550.0 5	2220.0 6	1240.0 7	667.0 8	396.0 9	273.0 8	273.0 5	250.0 5	200.0 6	145.0 6
1951	1660.0 16	1290.0 12	856.0 10	515.0 10	359.0 11	223.0 15	181.0 14	148.0 16	133.0 15	83.0 14
1952	638.0 29	499.0 27	341.0 28	242.0 26	186.0 24	147.0 22	135.0 20	118.0 22	120.0 18	77.0 18
1953	544.0 33	415.0 33	337.0 29	222.0 28	158.0 28	134.0 25	111.0 24	87.0 27	62.0 29	35.0 30
1954	590.0 32	492.0 28	303.0 31	169.0 32	94.0 34	54.0 34	40.0 35	31.0 35	23.0 35	13.0 35
1955	1080.0 22	624.0 24	352.0 27	211.0 31	154.0 29	128.0 26	98.0 29	106.0 23	94.0 24	57.0 25
1956	3410.0 6	1710.0 10	856.0 11	436.0 14	239.0 19	138.0 23	102.0 26	80.0 30	55.0 31	31.0 31
1957	3880.0 4	2880.0 4	2080.0 1	1260.0 2	902.0 2	576.0 1	491.0 1	393.0 2	280.0 2	148.0 5
1958	1240.0 19	705.0 21	513.0 19	406.0 15	268.0 17	239.0 13	187.0 13	156.0 12	140.0 12	78.0 17
1959	613.0 31	457.0 32	316.0 30	218.0 29	146.0 31	111.0 30	101.0 28	86.0 26	65.0 28	39.0 28
1960	929.0 23	711.0 19	467.0 21	313.0 21	273.0 16	205.0 16	165.0 18	134.0 20	106.0 21	77.0 19
1961	2370.0 10	2170.0 7	1560.0 5	871.0 6	592.0 4	347.0 5	261.0 6	211.0 7	159.0 7	95.0 9
1962	2670.0 34	2120.0 34	1670.0 34	151.0 34	134.0 32	115.0 29	102.0 27	92.0 26	83.0 26	60.0 24
1963	6280.0 30	4920.0 29	3740.0 24	294.0 23	189.0 23	116.0 27	92.0 30	80.0 29	74.0 27	45.0 27
1964	1910.0 13	1250.0 14	633.0 16	324.0 18	175.0 26	100.0 31	90.0 31	73.0 31	53.0 32	30.0 32
1965	2370.0 11	1620.0 8	1220.0 8	755.0 7	444.0 8	258.0 10	191.0 11	154.0 13	110.0 20	64.0 22
1966	1210.0 20	705.0 20	413.0 23	240.0 27	167.0 27	116.0 28	112.0 23	104.0 24	88.0 25	50.0 26
1967	2280.0 35	1960.0 35	1340.0 35	904.0 35	749.0 35	490.0 35	443.0 34	379.0 34	313.0 34	198.0 34
1968	1790.0 14	1150.0 15	835.0 12	508.0 11	293.0 14	265.0 9	231.0 8	192.0 8	158.0 8	100.0 8
1969	1660.0 17	925.0 17	530.0 18	316.0 20	214.0 20	191.0 18	179.0 16	169.0 11	157.0 9	95.0 10
1970	2730.0 9	1490.0 11	803.0 13	473.0 13	278.0 15	198.0 17	166.0 17	137.0 19	102.0 22	64.0 23
1971	7560.0 26	5920.0 25	3640.0 26	2490.0 24	1840.0 25	1340.0 24	1100.0 25	1010.0 25	970.0 23	657.0 20
1972	7750.0 25	4630.0 31	2940.0 32	2150.0 30	1530.0 30	894.0 32	765.0 32	628.0 32	562.0 30	380.0 29
1973	20400.0 12	12700.0 13	7570.0 14	5080.0 12	4440.0 7	4180.0 6	3740.0 4	3220.0 3	2700.0 3	1760.0 2
1974	32000.0 7	24700.0 5	14000.0 6	8790.0 5	5200.0 6	3310.0 6	2490.0 7	2490.0 6	2030.0 5	1540.0 3



## MONTHLY DURATION TABLE

ELK RIVER NEAR TIFF CITY, MISSOURI

PERIOD 1939-1974

CLASS LIMIT	TOTAL PERCENT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
0.00	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
5.10	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
6.70	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.0	100.0	100.0	100.0
8.90	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.4	99.8	98.0	100.0	100.0
12.00	99.6	100.0	100.0	100.0	100.0	100.0	100.0	98.6	98.6	97.5	100.0	100.0	100.0
16.00	99.4	100.0	100.0	100.0	100.0	100.0	100.0	98.2	97.3	97.2	100.0	100.0	100.0
21.00	99.3	100.0	100.0	100.0	100.0	100.0	100.0	97.7	97.1	97.1	99.4	100.0	100.0
27.00	99.0	100.0	100.0	100.0	100.0	100.0	100.0	97.2	97.1	95.4	97.9	100.0	100.0
36.00	98.3	100.0	100.0	100.0	100.0	100.0	99.6	97.1	96.2	92.6	94.6	99.9	100.0
48.00	97.1	99.8	100.0	100.0	99.8	100.0	99.2	96.9	93.4	86.6	91.9	98.2	100.0
63.00	93.8	93.4	98.8	98.2	99.1	100.0	98.9	96.2	86.0	81.5	86.0	93.4	94.0
84.00	88.0	91.2	94.0	95.1	98.4	100.0	98.3	91.2	76.2	72.0	72.3	82.8	85.7
110.00	80.9	85.6	89.8	94.1	97.0	100.0	95.3	82.9	62.7	58.3	57.3	69.6	79.2
150.00	71.9	76.5	83.7	90.9	94.9	98.9	86.3	71.9	47.4	43.9	46.7	58.4	64.2
190.00	64.7	67.4	74.3	84.9	92.8	95.6	81.4	63.1	36.0	34.7	40.7	51.0	55.7
260.00	55.2	56.3	62.2	78.6	89.7	89.7	72.3	48.8	22.9	24.0	32.8	39.8	45.9
340.00	47.8	46.0	53.1	73.2	83.2	83.2	62.4	37.0	15.7	18.0	26.7	33.5	40.6
450.00	39.6	36.2	45.1	64.3	75.2	72.8	51.0	26.0	10.1	13.9	20.6	28.1	32.8
600.00	31.6	27.6	35.0	53.5	63.8	60.6	40.4	19.3	7.5	10.6	15.9	22.8	23.2
790.00	24.7	18.6	26.7	43.2	51.7	50.0	31.3	13.8	5.5	7.6	12.0	19.7	16.6
1000.00	18.8	11.8	20.3	32.4	40.2	40.4	23.3	10.3	4.6	5.5	9.2	16.8	11.1
1400.00	12.5	6.9	14.2	21.5	27.3	29.0	15.1	6.3	2.9	3.3	5.7	11.0	6.9
1800.00	9.1	5.3	9.2	15.0	21.0	22.3	11.2	4.1	1.8	2.3	4.4	7.3	5.0
2400.00	6.0	3.0	5.8	11.1	14.5	14.6	7.4	2.6	1.4	1.3	3.0	4.6	3.0
3200.00	3.9	2.1	3.2	7.1	9.5	10.1	5.0	1.3	0.9	0.9	2.1	2.8	2.1
4200.00	2.6	1.4	1.9	4.5	6.6	6.8	3.5	0.8	0.7	0.7	1.3	1.5	1.7
5600.00	1.7	0.8	1.6	2.6	4.3	4.6	2.2	0.4	0.3	0.3	0.9	1.1	1.3
7400.00	1.0	0.5	0.9	1.5	2.6	3.1	1.2	0.3	0.1	0.1	0.5	0.7	0.8
9800.00	0.7	0.3	0.8	1.0	1.6	2.2	1.0	0.3	0.1	0.1	0.3	0.5	0.6
13000.00	0.4	0.2	0.2	0.4	1.2	1.7	0.7	0.1	0.1	0.0	0.2	0.3	0.2
17000.00	0.3	0.0	0.1	0.2	0.7	1.6	0.5	0.1	0.1	0.0	0.1	0.1	0.0
23000.00	0.2	0.0	0.0	0.0	0.4	1.1	0.2	0.0	0.0	0.0	0.1	0.1	0.0
30000.00	0.1	0.0	0.0	0.0	0.2	0.6	0.0	0.0	0.0	0.0	0.0	0.1	0.0
40000.00	0.0	0.0	0.0	0.0	0.2	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
53000.00	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

## STATISTICS OF ANNUAL DISCHARGE FOR WATER YEARS, 1940-74

Units of annual Discharge	Mean	Standard Deviation	Coefficient of Variation	Skew Coefficient	First Order Serial Correlation Coefficient
CFS	795	438	0.55	0.78	0.21
LOGS of CFS	2.829	0.268		-0.607	0.207



## ARKANSAS RIVER BASIN

07189500 NEOSHO RIVER NEAR GROVE, OKLA.

LOCATION.--Lat 36°33'25", long 94°44'45", in SE 1/4 sec.27, T.25 N., R.23 E., at bridge on State Highway 25, 3.0 mi (4.8 km) downstream from Spring Branch, 3.5 mi (5.6 km) northwest of Grove, 8.2 mi (13.2 km) downstream from Elk River, and at mile 105.4 (169.6 km).

DRAINAGE AREA.--9,969 mi<sup>2</sup> (25,820 km<sup>2</sup>).

PERIOD OF RECORD.--October 1924 to September 1939.

AVERAGE DISCHARGE.--15 years (1925-39), 6,067 ft<sup>3</sup>/s (172 m<sup>3</sup>/s).

REMARKS.--Some regulation at low flow by power plants above station.

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

NEOSHO RIVER NEAR GROVE, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
YEAR	NUMBER OF DAYS IN CLASS																																		
1925	1 16 10 1 8 15 16 16 24 92 54 15 36 37 5 10 3 6																																		CFS-DAYS 1109767.0
1926	3 10 7 47 23 32 45 56 30 29 16 12 14 9 7 4 2 10 5 1 2 1																																		1596448.0
1927	3 15 24 40 45 42 44 30 19 10 15 15 15 14 14 11 6 3																																		5747450.0
1928	2 7 13 34 42 67 39 38 20 19 21 7 7 13 12 8 9 5 3																																		3842450.0
1929	2 8 30 32 16 19 20 26 25 30 21 30 15 11 24 18 8 12 6 5 4 3																																		4367595.0
1930	11 24 45 65 40 31 24 34 17 12 13 9 10 3 5 6 11 2 1 2																																		1430254.0
1931	2 5 6 14 33 51 39 32 52 41 32 17 22 11 3 2 1 1 1																																		924441.0
1932	9 27 27 23 16 22 36 46 39 26 29 11 8 10 9 9 7 10 1 1																																		1503478.0
1933	17 41 15 30 44 27 25 27 14 29 12 17 15 15 10 7 5 1 4 1 1 1 3																																		1681023.0
1934	5 5 4 3 2 2 5 15 12 8 7 45 47 44 34 32 34 17 13 6 7 7 6 1 2 2																																		638850.0
1935	8 26 33 20 31 31 28 34 42 23 12 13 6 8 6 4 9 8 10 7 3 2 1																																		3525860.0
1936	2 6 4 7 4 24 4 16 8 5 21 27 44 41 31 17 21 24 17 7 8 5 7 6 4 3 1 2																																		1041452.0
1937	11 29 33 16 21 23 11 35 39 44 19 18 18 12 10 9 3 6 6 2																																		2670275.0
1938	1 6 63 35 24 18 20 28 26 21 8 19 16 14 8 4 6 12 9 11 10 5 1																																		2359886.0
1939	4 6 10 4 30 62 38 18 19 22 25 30 20 11 14 15 11 8 7 2 4 3 2																																		796602.0

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	5478	100.0	9	250.00	77	5361	97.9	18	2400.0	407	2609	47.6	27	22000	107	361	6.5
1	34.00	5	5478	100.0	10	320.00	128	5284	96.5	19	3000.0	409	2202	40.2	28	29000	74	254	4.6
2	44.00	7	5473	99.9	11	410.00	209	5156	94.1	20	3900.0	369	1793	32.7	29	37000	64	180	3.2
3	56.00	10	5466	99.8	12	530.00	235	4947	90.3	21	5000.0	330	1424	26.0	30	47000	55	116	2.1
4	72.00	7	5456	99.6	13	680.00	373	4712	86.0	22	6400.0	215	1094	20.0	31	61000	33	61	1.1
5	92.00	13	5449	99.5	14	870.00	445	4334	79.2	23	8200.0	193	879	16.0	32	78000	19	28	.5
6	120.00	12	5436	99.2	15	1100.00	371	3894	71.1	24	11000.0	127	686	12.5	33	100000	8	9	.1
7	150.00	39	5424	99.0	16	1400.00	398	3523	64.3	25	14000.0	93	559	10.2	34	130000	1	1	.0
8	190.00	24	5385	98.3	17	1800.00	516	3125	57.0	26	17000.0	105	466	8.5					

## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## NEOSHO RIVER NEAR GROVE, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1926	242.00 3	289.00 4	290.00 3	292.00 3	338.00 4	744.00 7	942.00 7	1380.00 8	1770.00 6	2440.00 1
1927	351.00 8	397.00 8	417.00 8	471.00 8	691.00 9	1520.00 13	2460.00 13	2640.00 12	6610.00 14	8580.00 10
1928	1530.00 14	1790.00 14	1840.00 14	2010.00 14	2500.00 14	3740.00 14	4220.00 14	4270.00 14	6130.00 12	13900.00 14
1929	765.00 13	907.00 13	1000.00 13	1100.00 13	1280.00 13	1340.00 12	1980.00 12	4110.00 13	6250.00 13	10600.00 13
1930	590.00 11	660.00 11	716.00 11	761.00 11	863.00 11	956.00 10	1070.00 8	1070.00 6	1480.00 4	9770.00 12
1931	448.00 9	467.00 9	498.00 9	516.00 9	617.00 8	719.00 6	1840.00 11	1760.00 10	2130.00 9	3700.00 5
1932	290.00 5	352.00 5	385.00 6	454.00 7	505.00 7	768.00 8	907.00 6	1350.00 7	1890.00 7	3660.00 4
1933	345.00 7	362.00 6	366.00 5	375.00 5	399.00 5	452.00 4	499.00 4	512.00 2	2490.00 10	3450.00 2
1934	530.00 10	553.00 10	560.00 10	610.00 10	723.00 10	868.00 9	1170.00 9	1430.00 9	1640.00 5	3820.00 6
1935	34.00 1	38.00 1	42.00 1	50.60 1	104.00 1	190.00 2	489.00 3	862.00 5	1400.00 3	3580.00 3
1936	740.00 12	752.00 12	806.00 12	916.00 12	952.00 12	1250.00 11	1420.00 10	2160.00 11	3700.00 11	8650.00 11
1937	44.00 2	53.30 2	65.00 2	76.20 2	114.00 2	156.00 1	436.00 1	725.00 4	1990.00 8	4940.00 8
1938	319.00 6	381.00 7	400.00 7	436.00 6	450.00 6	477.00 5	607.00 5	643.00 3	1380.00 2	4620.00 7
1939	260.00 4	283.00 3	316.00 4	326.00 4	333.00 3	354.00 3	440.00 2	429.00 1	640.00 1	5580.00 9

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## NEOSHO RIVER NEAR GROVE, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1925	16700.0 15	14000.0 15	11900.0 14	8400.0 13	6970.0 13	5210.0 13	4790.0 13	4960.0 13	4330.0 11	3040.0 11
1926	69300.0 8	56300.0 8	41600.0 8	30700.0 7	22700.0 6	12900.0 8	9020.0 8	7900.0 8	6610.0 8	4370.0 8
1927	128000.0 2	117000.0 1	97400.0 1	76300.0 1	58400.0 1	37300.0 3	29800.0 2	25100.0 1	22100.0 1	15700.0 1
1928	88500.0 5	87700.0 4	78900.0 3	59300.0 4	45900.0 4	27400.0 4	22100.0 4	19100.0 4	15200.0 4	10500.0 3
1929	106000.0 3	98300.0 3	78700.0 4	62700.0 3	46700.0 3	37600.0 1	29900.0 1	24900.0 2	18400.0 2	12000.0 2
1930	53600.0 9	40800.0 9	30200.0 9	18000.0 10	13700.0 9	11800.0 9	8520.0 9	6830.0 9	6320.0 9	3920.0 10
1931	30800.0 13	22600.0 13	13200.0 13	7970.0 14	6050.0 14	5170.0 14	4380.0 14	3950.0 14	3410.0 14	2530.0 13
1932	39200.0 11	31600.0 11	27700.0 10	20400.0 9	13700.0 10	8650.0 10	7360.0 10	6200.0 10	5000.0 10	4110.0 9
1933	84500.0 4	86500.0 5	51800.0 6	30400.0 8	19700.0 8	14700.0 6	10700.0 7	8490.0 7	7970.0 7	4610.0 7
1934	21300.0 14	14500.0 14	8170.0 15	5810.0 15	3530.0 15	3220.0 15	2540.0 15	2140.0 15	2040.0 15	1750.0 15
1935	130000.0 1	112000.0 2	90500.0 2	72500.0 2	57100.0 2	37500.0 2	26200.0 3	22900.0 3	16500.0 3	9660.0 4
1936	45800.0 10	40600.0 10	22000.0 12	11800.0 12	10100.0 12	8310.0 12	6270.0 12	5020.0 12	3710.0 13	2850.0 12
1937	70100.0 7	58800.0 7	44800.0 7	32200.0 6	21800.0 7	13400.0 7	11400.0 6	9960.0 6	10700.0 6	7320.0 5
1938	72300.0 6	60500.0 6	53200.0 5	44400.0 5	37200.0 5	24800.0 5	20100.0 5	16100.0 5	12000.0 5	6470.0 6
1939	34200.0 12	26700.0 12	22900.0 11	17100.0 11	11800.0 11	8550.0 11	6490.0 11	5180.0 11	3830.0 12	2180.0 14

## STATISTICS OF ANNUAL DISCHARGE FOR WATER YEARS, 1925-39

Units of annual Discharge	Mean	Standard Deviation	Coefficient of Variation	Skew Coefficient	First Order Serial Correlation Coefficient
CFS	6,067	4,153	0.68	1.11	0.16
LOGS of CFS	3.693	0.289		0.233	0.035

## ARKANSAS RIVER BASIN

07190500 NEOSHO RIVER NEAR LANGLEY, OKLA.  
(Below Spring River, known locally as Grand River)

LOCATION.--Lat 36°26'15", long 95°02'44", in SE 1/4 sec.27, T.23 N., R.21 E., Mayes County, on hillside of left bank, 0.5 mi (0.80 km) upstream from bridge on State Highway 82, 1.5 mi (2.4 km) south of Langley, 3.6 mi (5.8 km) downstream from Pensacola Dam, 6.3 mi (10.1 km) upstream from Big Cabin Creek, and at mile 73.4 (118.1 km).

DRAINAGE AREA.--10,335 mi<sup>2</sup> (26,768 km<sup>2</sup>).

PERIOD OF RECORD.--October 1939 to September 1974.

AVERAGE DISCHARGE.--35 years (1940-74), 6,998 ft<sup>3</sup>/s (198 m<sup>3</sup>/s).

REMARKS.--Low flow values of 15 ft<sup>3</sup>/s (0.42 m<sup>3</sup>/s) consist of estimated base flow (since July 1964). Flow regulated since 1940 by Lake O' The Cherokees in Oklahoma.

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

## NEOSHO RIVER NEAR LANGLEY, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34		
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS		
1940	1	2	13	57	14	27	9	7	8	25	56	75	50	18	2	2																			77028.0		
1941					7	9	4	3	16	55	16		8	2	4	1	5	3	74	69	11	5	3	1	17	23	10	9	3	4		2	1		2216264.0		
1942														4	3	2	1	13	7	8	89	22	34	30	33	24	21	16	16	17	13	5	4	3	5027573.0		
1943																1	1	19	12	2	9	33	152	56	12	12	9	18	3	7	5	1	3	5	4	1	4802756.0
1944																2	4	24	22	40	26	50	69	84	1	3	3	11	3	7	11	6			2997481.0		
1945																	2	15	3	6	5	89	112	10	18	26	22	21	15	5	13	1	2		5226020.0		
1946																4	13	12	49	74	28	102	23	13	15	2	5	17	3	5				2393884.0			
1947											1	1	2	3	1	15	19	17	39	109	65	8	26	5	11	14	8	11	6	5	3				2490504.0		
1948									2	3	1	3	5	8	15	24	36	41	53	78	15	27	7	6	7	5	4	8	17	6				2756938.0			
1949														6	20	13	34	71	42	83	22	21	21	13	9	9	1							2872760.0			
1950								1		2	2					9	12	10	17	95	64	76	9	9	16	16	7	18	2						3073386.0		
1951												1	2	7	3	4	13	6	24	76	41	89	12	15	15	15	5	5	15	11	4	2			4643613.0		
1952											5	3	1	3	2	3	4	3	5	21	40	46	13	13	14	8	5	4	4	3					2360179.0		
1953											41	18	18	8	11	8	9	5	13	18	25	72	47	27	38	7									664246.0		
1954											33	100	38	16	7	9	7	6	12	9	7	44	18	7	22	20	10								392017.0		
1955											8	9	21	7	9	16	15	4	2	5	3	6	37	79	70	51	11	7	2	2	1				1003690.0		
1956											20	33	18	11	20	14	15	31	30	19	17	43															

CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT
0	7.00	1	12784	100.0	9	109.00	178	11897	91.5	18	1800.00	824	9067	70.9	27	26000	213	625	4
1	4.00	1	12783	100.0	10	140.00	208	11519	90.1	19	2200.00	1182	8243	64.5	28	35000	178	412	3
2	12.00	269	12782	100.0	11	190.00	228	11311	88.5	20	3000.00	1311	7061	55.2	29	47000	134	234	1
3	17.00	14	12513	47.9	12	260.00	277	11083	86.7	21	4100.00	1307	5750	45.0	30	44000	61	100	
4	22.00	71	12494	97.9	13	350.00	246	10811	84.6	22	5600.00	1258	4443	34.8	31	67000	16	39	
5	31.00	40	12423	97.2	14	480.00	277	10585	82.6	23	7600.00	525	3185	24.9	32	120000	15	23	
6	41.00	95	12383	96.9	15	650.00	340	10288	80.5	24	10000.00	1373	2660	20.8	33	160000	7	8	
7	56.00	319	12288	96.1	16	890.00	386	9948	77.8	25	14000.00	363	1287	10.1	34	220000	1	1	
8	77.00	272	11969	93.6	17	1200.00	445	9562	74.8	26	19000.00	299	924	7.2					

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## NEIHSO RIVER NEAR LANGLEY, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1941	16.00 10	17.70 7	18.90 5	21.80 3	24.50 2	25.80 1	28.00 1	35.40 1	65.20 1	1330.00 4
1942	146.00 23	151.00 16	154.00 11	193.00 10	2100.00 25	2160.00 23	5040.00 31	5190.00 28	9560.00 33	12900.00 30
1943	334.00 27	336.00 25	554.00 21	1460.00 25	2230.00 27	3660.00 30	5410.00 32	6670.00 32	7210.00 29	9230.00 24
1944	544.00 31	968.00 24	989.00 24	1040.00 23	1120.00 20	1430.00 18	1960.00 15	2110.00 15	2150.00 12	11400.00 29
1945	1210.00 33	2960.00 33	3580.00 33	3590.00 33	3660.00 32	4130.00 32	4340.00 30	5050.00 26	5560.00 26	10600.00 28
1946	866.00 32	1040.00 29	1280.00 26	1304.00 24	1800.00 22	1880.00 21	4040.00 29	5570.00 30	8410.00 30	14200.00 32
1947	168.00 25	1250.00 31	1650.00 28	1930.00 27	1920.00 23	2090.00 22	2180.00 17	2190.00 16	2250.00 13	3560.00 10
1948	116.00 22	272.00 23	656.00 22	907.00 22	1000.00 19	1150.00 13	1400.00 12	1500.00 10	1760.00 10	6660.00 16
1949	367.00 29	1560.00 32	2310.00 32	2670.00 31	2760.00 30	2870.00 28	2930.00 22	3000.00 22	4510.00 22	10200.00 26
1950	189.00 26	664.00 26	1920.00 30	2060.00 29	2260.00 28	2690.00 26	2940.00 23	3260.00 23	3310.00 18	6140.00 15
1951	349.00 28	887.00 27	2200.00 31	2290.00 31	2350.00 29	2520.00 24	2630.00 21	2730.00 20	4250.00 20	8570.00 23
1952	1820.00 34	3190.00 34	3420.00 34	4260.00 34	4730.00 33	5330.00 33	6340.00 33	7740.00 33	8650.00 31	15000.00 33
1953	66.00 15	307.00 24	666.00 23	820.00 21	919.00 18	1210.00 14	1240.00 8	1300.00 8	1520.00 8	2840.00 8
1954	51.00 12	51.00 10	55.00 8	57.00 5	64.80 4	71.80 3	102.00 3	142.00 3	232.00 2	1230.00 3
1955	50.00 11	52.00 11	57.70 8	74.40 7	108.00 6	272.00 5	369.00 5	493.00 6	1030.00 6	1670.00 6
1956	69.00 17	84.00 15	222.00 13	248.00 11	331.00 9	495.00 7	575.00 7	1010.00 7	1490.00 7	2500.00 7
1957	54.00 13	54.70 12	55.40 7	58.30 4	58.50 3	61.00 2	198.00 4	267.00 4	445.00 4	1160.00 2
1958	60.00 14	161.00 19	384.00 18	616.00 19	907.00 17	1270.00 15	1360.00 11	1340.00 9	1420.00 9	9300.00 25
1959	82.00 18	184.00 21	452.00 19	531.00 17	674.00 12	1030.00 12	1480.00 13	1540.00 12	2560.00 14	7050.00 19
1960	96.00 19	173.00 20	504.00 20	534.00 18	1190.00 21	3900.00 31	3470.00 24	5050.00 27	4860.00 24	7140.00 20
1961	84.00 19	124.00 17	281.00 17	425.00 15	717.00 13	1400.00 17	2400.00 19	2990.00 21	3260.00 17	5100.00 12
1962	368.00 30	1040.00 30	1540.00 29	2770.00 32	4740.00 34	6070.00 34	6460.00 34	7930.00 34	9490.00 32	13900.00 31
1963	86.00 20	120.00 16	272.00 16	380.00 14	797.00 14	1800.00 20	1960.00 16	2360.00 17	5120.00 25	5100.00 13
1964	68.00 16	68.00 13	68.90 9	68.90 6	72.20 5	74.40 4	86.30 2	131.00 2	280.00 3	993.00 1
1965	15.00 4	20.00 8	169.00 12	260.00 12	484.00 11	669.00 8	1360.00 9	1840.00 13	2040.00 11	3260.00 9
1966	15.00 5	83.00 14	264.00 15	491.00 16	796.00 14	894.00 10	1550.00 14	1530.00 11	2910.00 15	5860.00 14
1967	15.00 6	27.70 9	74.90 10	145.00 8	217.00 8	363.00 6	490.00 6	638.00 5	705.00 5	1740.00 5
1968	15.00 7	15.00 1	18.60 3	147.00 9	382.00 10	683.00 9	3570.00 25	5930.00 31	5740.00 27	4770.00 17
1969	156.00 24	261.00 22	1066.00 25	1560.00 26	2050.00 24	2790.00 27	3970.00 27	4780.00 25	5920.00 24	7970.00 22
1970	15.00 8	15.00 2	18.00 4	372.00 13	695.00 16	1610.00 11	1360.00 10	2110.00 14	3410.00 19	7020.00 18
1971	15.00 9	15.00 3	253.00 14	769.00 20	2160.00 26	2660.00 25	3990.00 23	4760.00 24	4340.00 21	7880.00 21
1972	6.10 1	15.00 4	15.00 1	15.00 1	23.20 1	140.00 19	2260.00 18	2660.00 19	4610.00 23	4650.00 11
1973	15.00 2	15.00 5	15.00 2	14.90 2	125.00 7	1300.00 16	2490.00 20	2620.00 18	3210.00 16	10300.00 27
1974	15.00 3	15.00 6	1640.00 27	2160.00 29	2950.00 31	3480.00 29	3690.00 26	5530.00 29	10200.00 34	16500.00 34

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## NEIHSO RIVER NEAR LANGLEY, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1940	1020.0 35	923.0 35	747.0 35	628.0 35	545.0 35	436.0 35	397.0 35	370.0 35	334.0 35	210.0 35
1941	136000.0 7	120000.0 7	63800.0 8	33600.0 14	19000.0 19	17500.0 15	13300.0 16	10500.0 19	9560.0 17	6070.0 22
1942	155000.0 4	142000.0 3	104000.0 3	67600.0 5	52200.0 4	34900.0 4	27400.0 5	21400.0 7	16300.0 7	13800.0 4
1943	287000.0 1	238000.0 1	186000.0 1	134000.0 1	84700.0 1	50400.0 1	35800.0 1	26100.0 1	21000.0 4	13200.0 5
1944	69200.0 12	67700.0 12	62100.0 9	47400.0 8	45700.0 7	26900.0 9	21500.0 10	18600.0 9	13700.0 9	8190.0 10
1945	142000.0 5	127000.0 5	97900.0 5	82500.0 3	54800.0 5	39000.0 3	32800.0 3	28800.0 1	21400.0 2	14300.0 3
1946	57500.0 17	53900.0 17	47800.0 15	30900.0 17	19400.0 18	10900.0 23	9090.0 24	8890.0 23	8340.0 23	6560.0 20
1947	72700.0 10	70700.0 10	64300.0 11	44700.0 9	35500.0 11	24500.0 11	20000.0 11	15900.0 12	11400.0 15	8820.0 18
1948	74000.0 9	75500.0 8	72800.0 7	52700.0 7	35600.0 9	32400.0 8	22400.0 8	17900.0 10	13200.0 10	7530.0 14
1949	47600.0 21	46100.0 21	41800.0 17	29400.0 18	22700.0 16	15900.0 17	13100.0 17	13700.0 13	12400.0 13	7870.0 13
1950	47900.0 20	47100.0 19	44000.0 16	34200.0 13	29100.0 12	25100.0 10	19200.0 12	17100.0 11	12900.0 11	8420.0 9
1951	137000.0 6	127000.0 6	105000.0 4	90100.0 2	71400.0 2	42400.0 2	34300.0 2	28500.0 2	21200.0 3	12700.0 6
1952	55300.0 14	50300.0 18	38300.0 20	23800.0 22	16200.0 22	11200.0 22	9920.0 22	8870.0 24	9380.0 20	6450.0 21
1953	6490.0 32	5930.0 33	4760.0 34	4650.0 33	4490.0 32	4260.0 31	3750.0 31	3160.0 32	2520.0 32	1820.0 32
1954	6440.0 33	6150.0 32	5580.0 32	5310.0 32	4140.0 33	3670.0 33	3170.0 33	2520.0 33	1850.0 33	1070.0 34
1955	28600.0 28	21400.0 29	15300.0 29	11100.0 31	7520.0 30	5660.0 30	4520.0 30	4080.0 30	3510.0 30	2750.0 30
1956	5620.0 34	5430.0 34	4840.0 33	3770.0 34	3230.0 34	2540.0 34	2410.0 34	1970.0 34	1500.0 34	1470.0 33
1957	164000.0 3	130000.0 4	91500.0 6	67200.0 6	53900.0 6	34500.0 7	27100.0 7	22000.0 5	15300.0 8	8100.0 11
1958	58000.0 16	57200.0 15	54400.0 12	44400.0 10	31200.0 11	20200.0 13	15100.0 14	13600.0 14	12600.0 12	7410.0 15
1959	35000.0 24	32000.0 24	25100.0 24	17500.0 27	11900.0 29	7810.0 29	7200.0 29	6340.0 26	5310.0 26	3710.0 26
1960	54000.0 19	46600.0 20	38000.0 21	33200.0 15	24900.0 14	17200.0 16	13100.0 18	11100.0 17	9410.0 19	7870.0 12
1961	172000.0 2	154000.0 2	110000.0 2	78700.0 4	59800.0 3	35600.0 5	27200.0 6	21700.0 6	18000.0 6	11000.0 7
1962	23600.0 29	22100.0 28	19200.0 28	16200.0 28	14000.0 25	12400.0 20	11600.0 20	10300.0 20	9490.0 18	7310.0 16
1963	55200.0 23	32700.0 22	23400.0 26	17700.0 26	14000.0 26	9660.0 25	7360.0 27	6260.0 27	5010.0 28	3360.0 28
1964	71700.0 11	68800.0 11	49700.0 13	24900.0 19	16400.0 21	9620.0 26	7340.0 28	6160.0 29	4290.0 29	2280.0 31
1965	65200.0 14	60700.0 13	41000.0 18	26800.0 20	17100.0 20	11500.0 21	12000.0 19	11000.0 18	8850.0 21	5550.0 23
1966	12500.0 30	12500.0 30	12400.0 30	12000.0 30	6550.0 31	4190.0 32	3570.0 32	3310.0 31	2980.0 31	2810.0 29
1967	36200.0 22	32200.0 23	28200.0 22	25800.0 21	20100.0 17	14600.0 18	10900.0 21	9010.0 22	6150.0 24	3440.0 27
1968	29500.0 27	26000.0 27	21100.0 27	18100.0 25	12100.0 27	9350.0 28	9360.0 23	9060.0 21	8530.0 22	7230.0 17
1969	30400.0 26	28700.0 26	24600.0 25	19500.0 23	16000.0 23	13600.0 19	13600.0 15	13400.0 15	11900.0 14	4750.0 8
1970	66300.0 13	57300.0 14	40300.0 19	31900.0 16	24000.0 15	18600.0 14	16200.0 13	13200.0 16	10200.0 16	6790.0 19
1971	12400.0 31	12200.0 31	12200.0 31	12100.0 29	12000.0 28	10400.0 24	8970.0 25	7310.0 25	6080.0 25	5300.0 24
1972	31500.0 25	30900.0 25	27400.0 23	19400.0 24	14300.0 24	9540.0 27	7410.0 26	6260.0 28	5220.0 27	3980.0 25
1973	64600.0 15	55300.0 16	47900.0 14	41500.0 11	36500.0 8	35500.0 6	30500.0 4	27800.0 4	23300.0 1	15500.0 1
1974	86400.0 8	78400.0 9	59100.0 10	38000.0 12	26800.0 13	22800.0 12	21600.0 9	20200.0 8	19300.0 5	14300.0 2

## ARKANSAS RIVER BASIN

## 07190600 BIG CABIN CREEK NEAR PYRAMID CORNERS, OKLA.

LOCATION.--Lat 36°48'06", long 95°09'48", in SE 1/4 SE 1/4 sec.21, T.27 N., R.20 E., Craig County, on left bank, 60 ft (18.3 m) upstream from county road bridge, 1.2 mi (1.9 km) west of Pyramid Corners, 5.2 mi (8.4 km) west of Bluejacket, and at mile 34.4 (55.3 km).

DRAINAGE AREA.--71.1 mi<sup>2</sup> (184.1 km<sup>2</sup>).

PERIOD OF RECORD.--October 1963 to September 1972.

AVERAGE DISCHARGE.--9 years (1964-72), 31.4 ft<sup>3</sup>/s (0.889 m<sup>3</sup>/s).

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

## BIG CABIN CREEK NEAR PYRAMID CORNERS, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS	
1964	204									14	10	12	8	11	6	10	13	11	15	9	7	9	6	3	7	2		2	2	2		1	1		1	8457.0
1965	89									6	2	5	3	8	7	12	30	27	42	33	28	15	18	13	9	7	1	3	1		2	1		1	2	12635.9
1966	129									42	15	10	19	16	25	21	20	22	16	7	7	7	4	2	2		1								1022.1	
1967	147			1	8	6		16	8	5	5	8	11	21	19	19	16	14	12	9	10	7	6	4	5	2	1		2	1	2				7515.4	
1968	26			1	2	4	1	4	5	9	10	15	18	14	17	23	29	29	32	23	23	27	12	10	10	7	5	8		1			1		14574.7	
1969	38	3	2	1	3	4	5	8	2	4	8	7	6	12	14	12	12	21	31	46	34	35	20	7	7		10	1	1	3	6	1	1		24457.4	
1970	48	2	1	2	3	2	1	4	4	6	3	8	16	22	28	56	39	24	12	21	10	11	11	9	6	3	3	2	4	1			2	1	17072.0	
1971	61	1	2		5	2	1	10	6	7	6	7	11	26	21	33	32	30	39	16	18	8	5	8	3	4	3	1	1					6052.7		
1972	82	1	2	2	4	5		13	8	7	8	13	18	20	23	38	23	19	13	17	14	9	8	5	4	1	1	2	2	3			1		11387.1	

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	824	3288	100.0	9	0.30	65	2212	67.3	18	10.0	181	872	26.5	27	320	16	59	1.7					
1	0.01	7	2464	74.9	10	0.50	70	2147	65.3	19	15.0	163	691	21.0	28	480	12	43	1.3					
2	0.02	7	2457	74.7	11	0.70	93	2077	63.2	20	22.0	137	528	16.1	29	700	11	31	.9					
3	0.03	7	2450	74.5	12	1.00	118	1984	60.3	21	32.0	115	391	11.9	30	1000	9	20	.6					
4	0.04	23	2443	74.3	13	1.50	158	1866	56.8	22	47.0	80	276	8.4	31	1500	4	11	.3					
5	0.06	23	2420	73.6	14	2.20	185	1708	51.9	23	69.0	52	196	6.0	32	2200	6	7	.2					
6	0.09	8	2397	72.9	15	3.20	241	1523	46.3	24	100.0	37	144	4.4	33	3300	1	1	.0					
7	0.10	117	2389	72.7	16	4.70	224	1282	39.0	25	150.0	22	107	3.3	34									
8	0.20	60	2272	69.1	17	6.90	186	1058	32.2	26	220.0	26	85	2.6										

## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## BIG CABIN CREEK NEAR PYRAMID CORNERS, OKLAHOMA

YEAR	1		3		7		14		30		60		90		120		183		ANNUAL
1965	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.26	5	3.36	4	2.52	4	6.54	4	30.80
1966	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.05	3	0.42	3	1.28	3	2.28	2	28.10
1967	0.00	3	0.00	3	0.00	3	0.00	3	0.00	3	0.00	1	0.00	1	0.00	1	0.04	1	1.84
1968	0.00	4	0.00	4	0.00	4	0.02	8	0.06	7	2.89	7	7.18	8	13.20	8	20.60	8	48.70
1969	0.00	5	0.00	5	0.00	5	0.00	4	0.01	6	0.40	6	5.86	7	6.68	6	10.00	5	48.07
1970	0.00	6	0.00	6	0.00	6	0.00	5	0.08	8	3.08	8	4.04	6	4.57	5	18.20	7	48.60
1971	0.00	7	0.00	7	0.00	7	0.00	6	0.00	4	0.14	4	5.40	5	10.80	7	14.10	6	44.70
1972	0.00	8	0.00	8	0.00	8	0.00	7	0.00	5	0.00	2	0.10	2	0.76	2	4.15	3	28.10

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## BIG CABIN CREEK NEAR PYRAMID CORNERS, OKLAHOMA

YEAR	1		3		7		15		30		60		90		120		183		ANNUAL	
1964	5000.0	3	1400.0	4	627.0	5	332.0	5	188.0	6	105.0	6	90.3	5	67.9	6	46.2	6	23.1	6
1965	2450.0	5	1630.0	2	916.0	1	442.0	1	227.0	4	125.0	4	89.5	6	72.2	5	53.8	4	34.6	4
1966	124.0	9	60.3	4	32.8	9	23.1	9	17.0	9	10.0	9	8.9	9	7.1	9	5.5	9	2.8	9
1967	1380.0	7	705.0	7	318.0	7	174.0	7	156.0	7	94.8	7	76.0	7	60.6	7	40.7	7	20.6	7
1968	2310.0	6	1020.0	5	522.0	6	316.0	6	189.0	5	127.0	3	99.4	3	79.9	3	66.3	3	39.8	3
1969	2730.0	4	1010.0	6	653.0	4	337.0	4	236.0	2	134.0	2	115.0	2	114.0	1	106.0	1	67.0	1
1970	4490.0	1	1660.0	1	830.0	2	410.0	2	261.0	1	200.0	1	140.0	1	108.0	2	73.7	2	46.6	2
1971	503.0	8	248.0	8	144.0	8	86.3	8	72.2	8	52.8	8	41.9	8	34.1	8	28.6	8	16.6	8
1972	3270.0	2	1470.0	3	763.0	3	376.0	3	228.0	3	119.0	5	93.5	4	72.3	4	53.2	5	31.1	5

## ARKANSAS RIVER BASIN

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## 07191000 BIG CABIN CREEK NEAR BIG CABIN, OKLA.

LOCATION.--Lat 36°34'06", long 95°09'07", in NE 1/4 NE 1/4 sec.15, T.24 N., R.20 E., Craig County, on downstream side of right bank end of county road bridge, 4.9 mi (7.9 km) northeast of Big Cabin, 0.9 mi (1.5 km) downstream from White Oak Creek, 6.8 mi (10.9 km) upstream from Mustang Creek and at mile 13.0 (20.9 km).

DRAINAGE AREA.--450 mi<sup>2</sup> (1,165 km<sup>2</sup>).

PERIOD OF RECORD.--October 1947 to September 1974.

AVERAGE DISCHARGE.--27 years, 322 ft<sup>3</sup>/s (9.12 m<sup>3</sup>/s).

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

## BIG CABIN CREEK NEAR BIG CABIN, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	
YEAR	NUMBER OF DAYS IN CLASS																																			CFS_DAYS
1948																																				185558.1
1949																																				125441.9
1950																																				129706.5
1951																																				146938.7
1952																																				88541.7
1953																																				33340.3
1954																																				16741.1
1955																																				30669.6
1956																																				13860.3
1957																																				240274.0
1958																																				118283.3
1959																																				107628.0
1960																																				232326.3
1961																																				239253.9
1962																																				126379.6
1963																																				53274.4
1964																																				46210.1
1965																																				86656.9
1966																																				24296.5
1967																																				53454.3
1968																																				136394.3
1969																																				151209.7
1970																																				96829.5
1971																																				49217.0
1972																																				67994.9
1973																																				322142.4
1974																																				252447.6

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	9862	100.0	9	3.10	559	7509	76.1	18	98.0	579	2725	27.6	27	3100	83	247	2.5
1	0.10	20	9862	100.0	10	4.60	396	6950	70.5	19	140.0	542	2146	21.8	28	4500	60	164	1.6
2	0.20	63	9842	99.8	11	6.70	452	6554	66.5	20	210.0	383	1604	16.3	29	6600	56	104	1.0
3	0.30	90	9779	99.2	12	9.80	389	6102	61.9	21	310.0	286	1221	12.4	30	9800	26	48	.4
4	0.50	82	9689	98.2	13	14.00	532	5713	57.9	22	450.0	209	935	9.5	31	14000	13	22	.2
5	0.70	212	9607	97.4	14	21.00	545	5181	52.5	23	670.0	157	726	7.4	32	21000	8	9	.0
6	1.00	327	9395	95.3	15	31.00	550	4636	47.0	24	980.0	102	569	5.8	33	31000	1	1	.0
7	1.40	857	9068	91.9	16	45.00	658	4086	41.4	25	1400.0	120	467	4.7	34				
8	2.10	702	8211	83.3	17	67.00	703	3428	34.8	26	2100.0	100	347	3.5					



LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## BIG CABIN CREEK NEAR BIG CABIN, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1949	2.10 23	2.37 24	2.57 24	2.69 23	2.91 18	3.11 14	3.30 9	3.70 8	119.00 19	563.00 21
1950	1.90 21	1.90 21	2.03 21	2.12 21	2.21 15	4.00 15	4.46 10	14.30 11	37.40 11	285.00 14
1951	3.60 25	3.80 25	5.33 25	7.40 25	8.18 25	9.69 20	14.30 17	18.40 14	213.00 21	458.00 19
1952	2.20 24	2.23 23	2.47 23	2.87 24	4.74 22	99.60 25	147.00 24	223.00 24	310.00 24	460.00 20
1953	0.70 9	0.73 9	0.77 9	0.79 6	0.79 4	0.99 4	1.51 6	1.52 3	1.69 2	54.40 5
1954	0.60 7	0.60 7	0.60 4	0.66 4	0.98 6	1.35 6	1.38 5	1.57 4	2.25 3	83.00 6
1955	0.10 1	0.13 3	0.17 2	0.20 2	0.21 2	0.26 1	0.31 1	4.01 9	18.20 7	92.10 7
1956	0.50 6	0.57 6	0.63 5	0.71 5	0.89 5	1.20 5	1.24 4	1.40 2	28.60 10	50.20 4
1957	0.10 2	0.10 1	0.11 1	0.14 1	0.15 1	0.27 2	0.61 2	1.81 5	3.04 4	42.20 2
1958	1.00 17	1.10 17	1.13 14	1.14 10	1.26 7	2.38 10	2.32 8	3.16 7	5.02 5	753.00 24
1959	0.90 14	1.00 16	1.14 16	1.37 15	1.68 9	6.65 17	13.30 15	12.20 10	27.60 9	286.00 15
1960	0.80 12	0.80 12	0.80 10	0.99 9	3.90 21	19.60 23	154.00 25	298.00 26	438.00 26	739.00 23
1961	0.90 15	0.93 14	1.13 15	1.49 16	2.18 14	3.02 13	5.74 11	15.50 12	24.20 8	201.00 10
1962	11.00 26	11.70 26	15.00 26	34.80 26	105.00 26	147.00 26	165.00 26	288.00 25	407.00 25	806.00 25
1963	1.00 16	1.00 15	1.06 13	1.26 13	2.27 16	2.85 12	13.70 16	35.00 17	217.00 22	248.00 12
1964	0.10 3	0.10 2	0.19 3	0.29 3	0.35 3	0.63 3	0.86 3	1.10 1	1.54 1	8.81 1
1965	0.70 10	0.70 8	0.74 8	0.96 7	1.85 12	4.24 16	75.20 22	67.10 21	86.60 16	182.00 9
1966	0.80 13	0.87 13	0.96 12	1.17 11	1.74 11	1.87 8	6.63 12	18.30 13	43.30 12	202.00 11
1967	0.40 4	0.47 4	0.64 7	1.34 14	1.68 10	1.79 7	1.97 7	2.43 6	8.03 6	49.50 3
1968	1.40 20	1.50 20	1.67 20	2.02 20	3.44 19	16.00 21	65.40 21	131.00 22	186.00 20	420.00 18
1969	1.30 18	1.37 19	1.50 19	1.92 19	2.07 13	2.82 11	24.80 18	47.20 19	79.50 15	326.00 17
1970	0.71 11	0.79 11	1.28 17	1.85 18	5.66 23	9.65 19	13.00 14	28.20 15	60.70 14	262.00 13
1971	0.69 8	0.75 10	0.83 11	1.20 12	3.45 20	18.40 22	28.00 19	53.40 20	115.00 18	298.00 16
1972	0.45 5	0.56 5	0.63 6	0.98 8	1.45 8	2.13 9	7.90 13	29.00 16	44.70 13	144.00 8
1973	1.30 19	1.30 18	1.44 18	1.62 17	2.82 17	8.05 18	41.30 20	36.70 18	111.00 17	595.00 22
1974	2.10 22	2.13 22	2.17 22	2.53 22	5.90 24	73.30 24	122.00 23	156.00 23	305.00 23	806.00 26

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## BIG CABIN CREEK NEAR BIG CABIN, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1948	30800.0 2	19800.0 2	11500.0 2	5630.0 3	3520.0 4	2670.0 2	1820.0 3	1410.0 3	1010.0 5	507.0 6
1949	11100.0 13	7790.0 12	3950.0 14	2310.0 14	1720.0 11	1240.0 9	926.0 9	796.0 9	671.0 9	344.0 12
1950	10100.0 17	5450.0 17	4160.0 13	2700.0 10	1870.0 9	1180.0 10	994.0 7	830.0 8	634.0 11	355.0 10
1951	29600.0 3	18400.0 3	8530.0 5	4470.0 5	2370.0 6	1260.0 7	909.0 10	745.0 11	677.0 8	403.0 8
1952	5050.0 22	3240.0 21	1820.0 21	1310.0 19	1100.0 17	680.0 16	502.0 17	421.0 18	418.0 16	242.0 16
1953	8330.0 18	3490.0 20	1830.0 20	1200.0 21	802.0 20	479.0 20	358.0 21	269.0 22	181.0 23	91.3 23
1954	2710.0 25	2090.0 25	1070.0 25	520.0 26	291.0 26	266.0 24	181.0 26	136.0 26	89.6 26	45.9 26
1955	4850.0 23	2490.0 23	1320.0 23	674.0 23	361.0 25	230.0 25	182.0 24	163.0 24	129.0 24	84.0 24
1956	2500.0 27	1350.0 26	678.0 27	331.0 27	167.0 27	103.0 27	88.9 27	71.4 27	47.4 27	37.9 27
1957	17200.0 9	11700.0 8	10100.0 3	6250.0 2	5090.0 1	3390.0 1	2590.0 1	1980.0 1	1310.0 2	658.0 3
1958	26700.0 4	15500.0 4	7510.0 6	3950.0 6	2030.0 8	1050.0 12	752.0 13	854.0 7	627.0 12	324.0 13
1959	11400.0 12	8060.0 11	3750.0 16	2560.0 12	1300.0 15	657.0 17	729.0 14	550.0 14	438.0 15	295.0 14
1960	46300.0 1	30500.0 1	17100.0 1	8670.0 1	4390.0 2	2350.0 3	1760.0 4	1400.0 4	1040.0 4	635.0 5
1961	18600.0 8	12100.0 7	9210.0 4	4770.0 4	3700.0 3	2140.0 5	1570.0 5	1260.0 5	1170.0 3	655.0 4
1962	7150.0 19	4220.0 19	2520.0 18	1730.0 17	927.0 18	737.0 15	644.0 15	530.0 15	486.0 13	346.0 11
1963	6550.0 20	2740.0 22	1440.0 22	832.0 22	697.0 22	479.0 21	357.0 22	320.0 20	279.0 20	146.0 19
1964	10900.0 16	5700.0 15	2550.0 17	1310.0 18	769.0 21	405.0 22	416.0 20	316.0 21	250.0 21	126.0 22
1965	19400.0 7	11400.0 9	5630.0 8	2880.0 9	1480.0 13	820.0 14	586.0 16	481.0 16	363.0 17	237.0 17
1966	2540.0 26	1340.0 27	1070.0 26	557.0 25	370.0 24	227.0 26	181.0 25	160.0 25	117.0 25	66.6 25
1967	6470.0 21	4740.0 18	2380.0 19	1220.0 20	804.0 19	525.0 19	469.0 18	423.0 17	283.0 19	146.0 20
1968	11900.0 11	7370.0 13	4360.0 11	2500.0 13	1540.0 12	1120.0 11	976.0 8	784.0 10	636.0 10	373.0 9
1969	11000.0 14	5700.0 16	4240.0 12	2210.0 15	1400.0 14	867.0 13	767.0 12	722.0 12	682.0 7	414.0 7
1970	23900.0 5	12300.0 6	5410.0 9	2640.0 11	1820.0 10	1240.0 8	866.0 11	659.0 13	451.0 14	265.0 15
1971	4140.0 24	2380.0 24	1140.0 24	597.0 24	426.0 23	350.0 23	278.0 23	244.0 23	224.0 22	135.0 21
1972	11000.0 15	7010.0 14	3890.0 15	1960.0 16	1150.0 16	621.0 18	455.0 19	355.0 19	292.0 18	186.0 18
1973	16200.0 10	8210.0 10	4490.0 10	2960.0 8	2650.0 5	2290.0 4	1840.0 2	1640.0 2	1370.0 1	863.0 1
1974	22300.0 6	14700.0 5	7180.0 7	3740.0 7	2230.0 7	1380.0 6	1060.0 6	1260.0 6	910.0 6	692.0 2

STATION\_NUMBER 07191000

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## MONTHLY DURATION TABLE

BIG CABIN NEAR BIG CABIN, OKLAHOMA

PERIOD 1947-1974

CLASS LIMIT	TOTAL PERCENT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
0.00	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0.10	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0.14	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	98.9	98.7	100.0	100.0
0.21	99.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	94.2	95.7	100.0	100.0
0.31	98.8	100.0	100.0	100.0	100.0	100.0	100.0	99.3	98.1	93.3	94.4	100.0	100.0
0.46	98.2	100.0	100.0	100.0	100.0	100.0	100.0	97.6	97.3	91.6	93.2	99.4	100.0
0.67	97.4	99.6	100.0	100.0	100.0	100.0	100.0	96.5	94.0	90.2	92.6	96.4	100.0
0.98	95.3	98.2	99.7	99.5	100.0	100.0	100.0	95.2	89.0	84.6	87.2	91.5	98.4
1.40	91.9	94.4	96.9	96.7	99.0	100.0	99.9	92.7	83.0	79.5	78.1	87.0	96.5
2.10	83.3	83.6	86.9	93.0	97.5	100.0	95.1	80.9	72.0	70.2	67.1	75.3	77.9
3.10	76.1	78.1	83.0	92.6	96.7	99.9	89.8	72.3	57.7	58.1	54.5	63.1	68.7
4.60	70.5	74.2	80.1	90.3	95.9	98.2	85.4	62.4	45.3	49.3	47.8	57.3	60.6
6.70	66.5	71.0	77.6	88.5	94.3	95.8	79.6	53.9	39.2	43.0	44.8	53.5	57.5
9.80	61.9	66.8	74.4	86.4	90.4	92.6	73.8	47.7	32.0	38.4	41.9	48.4	50.9
14.00	57.9	61.5	72.3	84.0	85.9	88.1	67.8	43.2	26.8	35.3	39.3	42.5	49.7
21.00	52.5	55.7	68.2	78.3	79.9	80.4	59.9	38.4	22.0	30.5	35.5	38.4	44.8
31.00	47.0	51.9	60.9	71.9	75.6	70.7	52.0	33.9	17.2	26.0	30.6	35.4	39.2
45.00	41.4	46.1	50.6	64.9	69.5	62.1	43.7	29.9	13.9	22.5	27.7	30.7	36.4
67.00	34.8	37.0	44.0	57.8	57.2	49.8	36.7	25.1	11.2	19.5	23.3	24.7	31.5
98.00	27.6	27.2	31.3	46.8	45.7	39.4	30.5	20.4	9.6	16.4	19.2	20.2	25.1
140.00	21.8	18.9	24.2	37.5	34.6	31.5	25.2	15.7	7.9	13.7	15.8	17.7	18.9
210.00	16.3	12.8	16.4	28.2	26.3	25.1	20.1	11.4	5.7	10.6	11.5	14.6	12.8
310.00	12.4	9.1	11.7	21.5	21.0	19.2	15.9	8.8	4.4	8.6	9.2	10.7	8.5
450.00	9.5	6.6	8.4	16.2	14.8	16.2	12.3	7.2	3.8	7.4	7.3	7.9	5.6
670.00	7.4	4.8	5.9	12.4	11.2	12.7	10.4	5.9	2.4	5.9	6.0	6.2	4.7
980.00	5.8	3.8	4.1	8.8	9.3	10.2	7.9	4.5	2.3	4.8	5.0	4.7	3.8
1400.00	4.7	2.6	2.9	7.5	7.2	8.6	6.9	4.1	1.8	4.3	4.1	3.7	3.1
2100.00	3.5	1.8	1.6	6.3	5.1	6.7	5.2	3.2	1.4	3.3	2.9	2.5	2.2
3100.00	2.5	1.1	1.3	4.4	2.6	4.8	4.0	2.4	0.8	2.6	2.2	2.3	1.6
4500.00	1.7	0.6	0.5	2.9	1.9	3.6	2.8	1.4	0.8	1.7	1.4	1.2	1.0
6600.00	1.1	0.4	0.4	1.6	1.2	2.7	2.1	0.6	0.6	1.0	0.8	0.6	0.6
9800.00	0.5	0.0	0.0	0.6	0.4	1.4	1.4	0.6	0.1	0.4	0.5	0.4	0.1
14000.00	0.2	0.0	0.0	0.1	0.1	0.8	0.5	0.4	0.1	0.1	0.5	0.0	0.0
21000.00	0.1	0.0	0.0	0.1	0.0	0.1	0.2	0.2	0.0	0.0	0.4	0.0	0.0
31000.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0

## STATISTICS OF ANNUAL DISCHARGE FOR WATER YEARS, 1948-74

Units of annual Discharge	Mean	Standard Deviation	Coefficient of Variation	Skew Coefficient	First Order Serial Correlation Coefficient
CFS	322	226	0.70	0.81	0.40
LOGS of CFS	2.381	0.369		-0.571	0.442

## ARKANSAS RIVER BASIN

07191220 SPAVINAW CREEK NEAR SYCAMORE, OKLA.

LOCATION.--Lat 36°19'57", long 94°58'24", in NE 1/4 SW 1/4 sec.4, T.21 N., R.25 E., Delaware County, on right bank 1.8 mi (2.9 km) upstream from Cherokee Creek, 4.8 mi (7.7 km) northeast of Row, 6.5 mi (10.5 km) southeast of Sycamore, and at mile 35.0 (56.3 km).

DRAINAGE AREA.--133 mi<sup>2</sup> (344 km<sup>2</sup>).

PERIOD OF RECORD.--October 1961 to September 1974.

AVERAGE DISCHARGE.--13 years (1962-74), 108 ft<sup>3</sup>/s (3.06 m<sup>3</sup>/s).

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

SPAVINAW CREEK NEAR SYCAMORE, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
-------	---	---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

YEAR	NUMBER OF DAYS IN CLASS																												CFS-DAYS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	4748	100.0	9	11.00	233	4266	89.8	18	120.0	312	1031	21.7	27	1300	12	26	.5
1	1.30	4	4748	100.0	10	14.00	376	4033	84.9	19	160.0	224	719	15.1	28	1800	3	14	.2
2	1.70	3	4744	99.9	11	19.00	280	3657	77.0	20	210.0	139	495	10.4	29	2300	5	11	.2
3	2.20	3	4741	99.9	12	24.00	355	3677	71.1	21	270.0	132	356	7.5	30	3000		6	.1
4	2.90	5	4738	99.8	13	32.00	333	3022	63.6	22	350.0	80	224	4.7	31	3900	2	6	.1
5	3.80	44	4733	99.7	14	42.00	442	2689	56.6	23	460.0	52	144	3.0	32	5100	2	4	.0
6	4.90	72	4689	98.8	15	55.00	425	2247	47.3	24	600.0	26	92	1.9	33	6700		2	.0
7	6.40	122	4617	97.2	16	71.00	387	1822	38.4	25	790.0	25	66	1.4	34	8700	2	2	.0
8	8.40	229	4495	94.7	17	93.00	404	1435	30.2	26	1000.0	15	41	0.9					

## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## SPAVINAW CREEK NEAR SYCAMORE, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1963	13.00 8	13.30 8	15.10 8	17.70 8	25.30 9	41.40 11	52.60 10	52.80 10	72.80 9	84.70 6
1964	3.90 2	3.90 2	3.96 2	4.10 2	4.47 1	5.25 1	5.98 1	6.48 1	7.77 1	17.10 1
1965	1.30 1	1.40 1	1.64 1	2.24 1	4.54 2	13.00 4	23.70 7	21.00 5	24.00 6	39.70 3
1966	8.00 5	8.10 5	8.37 5	9.71 5	11.20 5	14.10 5	18.00 6	21.70 6	22.50 5	89.50 7
1967	4.50 4	4.67 4	4.74 3	4.79 3	5.43 3	6.62 2	7.30 2	7.67 2	8.77 2	27.00 2
1968	4.50 3	4.60 3	5.27 4	5.44 4	6.16 4	7.60 3	9.64 3	14.60 3	17.80 3	93.20 8
1969	24.00 11	24.00 11	24.30 11	25.30 11	27.10 11	30.30 9	32.80 9	37.40 8	78.60 10	157.00 10
1970	17.00 9	17.00 9	17.40 9	18.10 9	18.90 8	22.00 8	28.60 8	38.30 9	37.10 7	80.90 5
1971	23.00 10	23.00 10	23.10 10	23.60 10	25.70 10	37.70 10	53.50 11	87.60 12	118.00 11	163.00 11
1972	11.00 6	11.30 6	11.70 6	12.00 6	12.60 6	15.30 7	16.50 4	17.30 4	21.50 4	46.80 4
1973	12.00 7	12.00 7	12.40 7	12.60 7	13.50 7	14.40 6	16.50 5	35.00 7	46.90 8	148.00 9
1974	39.00 12	39.70 12	40.40 12	42.60 12	47.20 12	57.70 12	69.60 12	87.30 11	164.00 12	288.00 12

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## SPAVINAW CREEK NEAR SYCAMORE, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1962	362.0 12	318.0 12	254.0 12	202.0 11	175.0 8	149.0 8	129.0 8	121.0 8	119.0 8	93.4 7
1963	1220.0 7	778.0 8	456.0 9	271.0 9	171.0 9	113.0 10	95.8 11	87.1 10	82.5 10	52.7 10
1964	521.0 11	422.0 11	263.0 11	155.0 12	91.0 12	61.4 12	66.0 12	56.0 12	45.7 12	28.1 12
1965	2410.0 4	1500.0 4	1090.0 3	845.0 3	505.0 4	293.0 6	219.0 6	179.0 6	129.0 7	76.8 8
1966	1180.0 8	765.0 9	470.0 8	274.0 8	170.0 10	121.0 9	113.0 9	109.0 9	89.9 9	51.3 11
1967	225.0 13	183.0 13	136.0 13	90.0 13	57.3 13	36.5 13	38.2 13	32.9 13	26.3 13	18.0 13
1968	1720.0 6	1420.0 5	1060.0 4	686.0 5	465.0 5	369.0 4	346.0 3	301.0 3	248.0 3	149.0 3
1969	2170.0 5	1360.0 6	854.0 6	514.0 6	365.0 6	302.0 5	265.0 5	247.0 5	217.0 4	140.0 4
1970	5890.0 2	3300.0 2	1670.0 2	910.0 2	535.0 3	370.0 3	304.0 4	255.0 4	188.0 5	120.0 5
1971	886.0 10	670.0 10	482.0 7	361.0 7	293.0 7	214.0 7	169.0 7	164.0 7	147.0 6	97.0 6
1972	959.0 9	797.0 7	445.0 10	245.0 10	145.0 11	89.9 11	99.6 10	82.1 11	68.5 11	53.1 9
1973	2980.0 3	1770.0 3	1030.0 5	703.0 4	655.0 2	606.0 1	552.0 1	496.0 1	406.0 1	253.0 2
1974	8920.0 1	6400.0 1	3180.0 1	1610.0 1	920.0 1	574.0 2	428.0 2	392.0 2	307.0 2	265.0 1

## STATISTICS OF ANNUAL DISCHARGE FOR WATER YEARS, 1962-74

Units of annual Discharge	Mean	Standard Deviation	Coefficient of Variation	Skew Coefficient	First Order Serial Correlation Coefficient
CFS	107	78.3	0.73	1.10	0.48
LOGS of CFS	1.918	0.344		-0.339	0.247

## ARKANSAS RIVER BASIN

07191500 NEOSHO RIVER NEAR CHOUTEAU, OKLA.

LOCATION.--Lat 36°14'13", long 95°13'35", in SE 1/4 SE 1/4 sec.1, T.20 N., R.19 E., Mayes County, at county road bridge between Locust Grove and Pryor, 2.5 mi (4.0 km) downstream from Lake Hudson, 5.0 mi (8.0 km) upstream from Pryor Creek, and 7.5 mi (12.1 km) northeast of Chouteau, and at mile 44.7 (71.9 km).

DRAINAGE AREA.--11,546 mi<sup>2</sup> (29,904 km<sup>2</sup>).

PERIOD OF RECORD.--March 1940 to September 1950, October 1963 to September 1974.

AVERAGE DISCHARGE.--21 years (1941-50, 1964-74), 9,197 ft<sup>3</sup>/s (260 m<sup>3</sup>/s).

REMARKS.--Flow regulated since 1940 by Lake O' The Cherokees in Oklahoma and completely regulated since 1963 by Lake Hudson in Oklahoma.

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

NEOSHO RIVER NEAR CHOUTEAU, OKLAHOMA

CLASS 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34

YEAR	NUMBER OF DAYS IN CLASS																																	CFS-DAYS			
1941	12	10	5	7	10	15	9	18	9	3	8	14	112	36	20	1	7	13	20	15	9	4	3	2	2	1									2654316.0		
1942								5	1	2	10	10	63	57	33	29	13	40	18	17	21	18	13	5	6	3	1									5499971.0	
1943								2	18	12	3	8	25	110	92	20	12	11	17	7	5	1	3	5	3	1	2									5534305.0	
1944								1	4	13	19	34	30	49	64	76	19	9	6	7	7	4	12	8												3332032.0	
1945											1	13	3	4	14	73	105	20	19	26	20	27	12	10	14	2	2									5734400.0	
1946														10	14	30	92	19	65	58	21	13	12	5	16	6	4									2680220.0	
1947														3	12	20	36	89	83	13	25	15	13	14	10	9	9	2	6							2826633.0	
1948								1	9	5	10	16	36	43	51	67	39	20	11	8	9	7	4	11	12	6	1									3170406.0	
1949														2	13	20	30	68	45	51	47	23	18	24	11	11	2									3311730.0	
1950														1	4			7	11	15	56	96	49	42	13	14	24	7	22	4						3632402.0	
1964	2			5	4	19	31	96	49	20	14	5	11	6	7	3	8	5	14	23	21	4	3	4	6	1	1	1	3							828790.0	
1965								1	15	15	10	5	12	12	11	23	16	27	42	35	18	22	20	33	29	8	5	3	3								2228114.0
1966								6	21	12	3	3	14	11	30	30	24	33	48	42	32	19	8	25	4												1136394.0
1967								3	54	6	9	21	28	28	22	17	30	21	19	11	10	12	21	11	5	5	4										1351444.0
1968								2	7	7	2	4	2	1	3	8	11	14	22	33	32	44	34	89	13	7	1										3052185.0
1969								2	11	4	2	3	2	3	7	3	7	12	15	15	19	29	128	75	20	8											3968458.0
1970								3	13	17	30	6	6	6	5	4	19	7	14	15	32	21	43	29	45	25	4	16	3	2							2627498.0
1971								5	32	49	6	1	3	6	6	3	6	10	14	21	38	35	34	60	36											2151862.0	
1972								2	69	46	7	10	5	5	9	8	7	11	25	25	33	28	25	33	9	1	5	3									1605304.0
1973								9	5	3	1	2	3	7	8	5	6	7	16	22	19	14	47	42	29	45	43	22	3							6904361.0	
1974								9				1	2		1	5	7	6	13	13	25	23	72	77	29	41	15	9	5	1							6096381.0

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	7670	100.0	9	140.00	213	7161	93.4	18	2200.0	720	5595	72.9	27	35000	175	368	4.7
1	12.00	2	7670	100.0	10	190.00	74	6948	90.6	19	3000.0	748	4875	63.6	28	48000	107	193	2.5
2	16.00	0	7668	100.0	11	260.00	75	6874	89.6	20	4100.0	814	4127	53.8	29	65000	53	86	1.1
3	22.00	5	7668	100.0	12	350.00	113	6799	88.6	21	5600.0	774	3313	43.2	30	88000	13	33	.4
4	30.00	13	7663	99.9	13	480.00	108	6686	87.2	22	7600.0	453	2539	33.1	31	120000	12	20	.2
5	41.00	19	7650	99.7	14	650.00	141	6578	85.8	23	10000.0	720	2086	27.2	32	160000	5	8	.1
6	56.00	46	7631	99.5	15	880.00	209	6437	83.9	24	14000.0	495	1366	17.8	33	220000	1	3	.0
7	76.00	138	7585	98.9	16	1200.00	261	6228	81.2	25	19000.0	253	871	11.4	34	300000	2	2	.0
8	100.00	286	7447	97.1	17	1600.00	372	5967	77.8	26	26000.0	250	618	8.1					



LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## NEOSHO RIVER NEAR CHOUTEAU, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1941	30.00 1	32.30 1	35.30 1	43.20 1	93.10 1	171.00 1	237.00 1	244.00 1	272.00 1	2000.00 2
1942	230.00 12	250.00 10	277.00 9	284.00 6	2210.00 14	2280.00 13	5670.00 19	5790.00 16	11000.00 19	14800.00 18
1943	545.00 16	550.00 14	780.00 12	1800.00 14	2590.00 17	3990.00 19	6020.00 20	7090.00 20	8160.00 17	10400.00 13
1944	647.00 17	911.00 15	957.00 13	1030.00 12	1130.00 10	1450.00 8	2020.00 7	2240.00 7	2330.00 5	13400.00 17
1945	1460.00 20	3010.00 20	3580.00 20	3600.00 20	3920.00 20	4300.00 20	4500.00 17	5200.00 15	5740.00 14	11600.00 15
1946	1070.00 19	1220.00 18	1350.00 15	1380.00 13	1970.00 12	2040.00 11	4500.00 18	6150.00 17	9050.00 18	15500.00 19
1947	350.00 14	1210.00 17	1810.00 16	1920.00 16	2120.00 13	2260.00 12	2300.00 8	2530.00 8	2790.00 6	4230.00 4
1948	328.00 13	373.00 12	755.00 11	991.00 11	1080.00 9	1240.00 6	1490.00 4	1630.00 3	1840.00 3	7500.00 9
1949	975.00 18	1790.00 19	2600.00 19	2760.00 19	2840.00 18	2920.00 16	3000.00 11	3090.00 11	5310.00 13	11500.00 14
1950	462.00 15	1030.00 16	2040.00 17	2160.00 17	2400.00 16	2990.00 17	3530.00 12	3560.00 12	3830.00 10	7290.00 7
1965	49.00 2	53.30 2	57.40 2	95.10 2	122.00 2	246.00 2	1590.00 5	2000.00 5	2100.00 4	3390.00 3
1966	82.00 5	106.00 4	331.00 10	547.00 10	845.00 7	974.00 4	1710.00 6	1780.00 4	3190.00 7	6490.00 6
1967	91.00 7	104.00 6	172.00 8	242.00 5	334.00 5	465.00 3	594.00 2	722.00 2	755.00 2	1930.00 1
1968	91.00 8	104.00 7	126.00 5	349.00 7	741.00 6	1290.00 7	4290.00 16	6230.00 16	6050.00 15	7610.00 10
1969	105.00 9	394.00 13	1240.00 14	1880.00 15	2310.00 15	2820.00 15	3990.00 14	4840.00 13	6440.00 16	9190.00 12
1970	71.00 3	75.30 3	81.00 3	363.00 6	907.00 8	1190.00 5	1450.00 3	2130.00 6	3440.00 8	7460.00 8
1971	77.00 4	77.00 4	141.00 7	410.00 9	1860.00 11	2450.00 14	3870.00 13	4950.00 14	4640.00 11	8500.00 11
1972	88.00 6	99.30 5	124.00 4	124.00 3	146.00 3	1830.00 10	2490.00 9	2840.00 9	5120.00 12	5300.00 1
1973	115.00 10	119.00 9	131.00 6	137.00 4	240.00 4	1740.00 9	2780.00 10	2860.00 10	3540.00 9	11900.00 16
1974	154.00 11	366.00 11	2090.00 18	2720.00 18	3300.00 19	3860.00 18	4220.00 15	6530.00 19	11500.00 20	20000.00 20

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## NEOSHO RIVER NEAR CHOUTEAU, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1941	172000.0 3	146000.0 3	83300.0 4	44200.0 9	24200.0 12	20500.0 11	15800.0 11	12400.0 13	11000.0 12	7280.0 14
1942	198000.0 2	167000.0 2	126000.0 2	78700.0 3	66500.0 2	44700.0 2	31600.0 4	24600.0 4	18600.0 5	15600.0 4
1943	367000.0 1	302000.0 1	218000.0 1	158000.0 1	99400.0 1	58900.0 1	41800.0 1	32800.0 2	24400.0 2	15200.0 5
1944	705000.0 10	69700.0 9	64900.0 6	49500.0 6	49100.0 4	32100.0 6	23900.0 7	20600.0 6	15100.0 8	9100.0 8
1945	159000.0 4	139000.0 4	109000.0 3	83300.0 2	60100.0 3	43600.0 4	36100.0 3	31700.0 3	23800.0 3	15700.0 3
1946	58000.0 12	54200.0 12	48100.0 11	32300.0 14	20400.0 15	12400.0 16	10400.0 17	9580.0 16	9190.0 16	7340.0 13
1947	87000.0 7	78500.0 7	64600.0 7	49400.0 7	39600.0 6	27600.0 8	22400.0 8	17900.0 9	12700.0 11	7740.0 12
1948	91000.0 6	86700.0 5	77100.0 5	54600.0 4	38600.0 4	36500.0 5	25800.0 5	20300.0 7	15300.0 6	8660.0 10
1949	444000.0 15	48600.0 15	40100.0 14	33000.0 13	25400.0 11	17900.0 12	14800.0 13	16000.0 10	14600.0 9	9070.0 9
1950	56100.0 13	49100.0 14	45700.0 13	37400.0 10	31800.0 9	27100.0 9	21000.0 9	19800.0 8	15200.0 7	9950.0 7
1964	80500.0 8	74300.0 8	52400.0 10	31200.0 15	17800.0 16	10200.0 20	8070.0 20	6500.0 20	4410.0 20	2260.0 21
1965	61800.0 11	59900.0 11	47300.0 12	33200.0 12	20900.0 14	12900.0 15	13600.0 14	12300.0 14	9920.0 15	6100.0 16
1966	16700.0 21	15300.0 21	12400.0 21	11700.0 21	6920.0 21	4950.0 21	4060.0 21	3990.0 21	3500.0 21	3110.0 20
1967	37000.0 16	36900.0 16	32500.0 17	28300.0 16	21400.0 13	15500.0 14	11400.0 16	9440.0 17	6640.0 18	3700.0 19
1968	36400.0 17	33500.0 17	25000.0 19	21000.0 19	16000.0 19	12000.0 17	12100.0 15	11000.0 15	10300.0 14	8340.0 11
1969	33900.0 19	32500.0 19	27800.0 18	22700.0 18	17600.0 17	15800.0 13	15100.0 12	15000.0 11	13700.0 10	10900.0 6
1970	54600.0 14	51600.0 13	41900.0 15	37100.0 11	28400.0 10	21200.0 10	17900.0 10	14500.0 12	10900.0 13	7200.0 15
1971	18500.0 20	15800.0 20	14400.0 20	13000.0 20	12800.0 20	11300.0 18	9610.0 18	7890.0 18	6660.0 17	5900.0 17
1972	35900.0 18	33500.0 18	32500.0 16	23400.0 17	16700.0 18	10800.0 19	8760.0 19	6950.0 19	5780.0 19	4390.0 18
1973	72600.0 9	63700.0 10	58000.0 9	54000.0 5	48000.0 5	44400.0 3	38400.0 2	34300.0 1	28700.0 1	18900.0 1
1974	91600.0 5	81500.0 6	62000.0 8	47700.0 8	35500.0 8	28100.0 7	25300.0 6	24100.0 5	22300.0 4	16700.0 2

## ARKANSAS RIVER BASIN

07192000 PRYOR CREEK NEAR PRYOR, OKLA.

LOCATION.--Lat 36°16'52", long 95°19'32", in SW 1/4 sec.19, T.21 N., R.19 E., on right bank at downstream side of bridge on U.S. Highway 69, 1.8 mi (2.9 km) south of Pryor, 2.0 mi (3.2 km) downstream from Seminole Creek, and at mile 10.5 (16.0 km).

DRAINAGE AREA.--229 mi<sup>2</sup> (593 km<sup>2</sup>).

PERIOD OF RECORD.--October 1949 to December 1963.

AVERAGE DISCHARGE.--16 years (1948-63), 131 ft<sup>3</sup>/s (3.71 m<sup>3</sup>/s).

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

PRYOR CREEK NEAR PRYOR, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	
YEAR	NUMBER OF DAYS IN CLASS																																			CFS_DAYS
1948	73	31	10	3	9	12	12	11	5	11	9	19	13	18	22	12	12	9	13	11	6	8	1	2	11	4	4	6	2	4	1	1	1	1	70812.0	
1949		11	8	10	34	36	26	14	10	6	6	13	9	12	14	17	23	16	26	12	15	4	3	8	10	11	5	3	1	1	1	1	1	68087.4		
1950		3	5	10	10	22	16	6	3	15	26	24	33	26	28	28	18	15	14	12	11	5	7	9	4	6	5	1	1	1	1	1	1	41820.2		
1951	1	2		1	3	6	2	2	25	60	36	25	24	24	19	23	31	18	14	14	5	4	5	6	1	6	2	4	1	1				31649.3		
1952	66	4	1	1	4	1	4	2	4	6	15	15	10	10	6	21	36	39	27	30	15	14	4	8	10	4	5	3	1					39507.3		
1953	140	37	12	7	7	10	16	5	13	5	5	20	10	8	7	3	10	11	7	8	2	6	5	3	3	1	2		1	1				17811.8		
1954	132	36	17	18	21	25	18	12	14	12	8	8	6	5	7	3	5	3	5	2	2	2	2	1	1									4560.6		
1955	131	26	17	8	7	16	12	12	18	12	22	8	14	12	10	10	8	3	5	6	2	1	1	1	1			1	1					6797.6		
1956	222	13	13	9	13	5	9	7	8	5	7	6	7	5	8	5	7	4	2			2	3			4	1	1						8613.9		
1957	132	15	7	2	9	6	15	13	12	13	6	7	7	9	3	6	3	3	7	10	10	7	7	6	7	6	9	8	5	3	3	1	1	128565.4		
1958	10	45	7	12	20	15	22	25	26	16	17	18	15	6	16	11	16	7	12	8	7	10	7	4	4	2	4	3						23378.4		
1959	72	12	37	13	14	11	13	13	17	15	23	23	19	10	16	9	4	4	4			5			2	1	3	1		1				13483.8		
1960	1	9	6	2	2	1	9	5	7	6	10	5	5	25	23	20	22	59	33	29	12	11	9	11	15	7	6	6	2	3		2	1	2	126633.8	
1961	17	2	4	1	3	4	11	5	6	2	3	28	23	15	18	17	21	31	28	33	13	18	13	7	7	7	6	3	6	5	4	2	2	124656.8		
1962	17	5	13	5	8	7	3	4	4	5	13	18	11	7	7	11	23	42	59	35	13	15	10	7	7	3	2	8	3					49185.7		
1963	95	4	2	3	4	7	5	5	5	16	34	25	48	24	19	13	16	13	6	5	2	2	5	3			1	1						9127.7		

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	1109	5844	100.0	9	2.40	209	3363	57.5	18	57.0	254	1209	20.7	27	1400	51	128	2.1
1	0.10	244	4735	81.0	10	3.40	240	3154	54.0	19	81.0	233	955	16.3	28	2000	24	77	1.3
2	0.20	162	4491	76.8	11	4.80	255	2914	49.9	20	120.0	110	722	12.4	29	2800	21	49	.8
3	0.30	103	4329	74.1	12	6.90	262	2659	45.5	21	160.0	125	612	10.5	30	4000	10	26	.4
4	0.40	144	4226	72.3	13	9.80	222	2397	41.0	22	230.0	63	487	8.3	31	5600	10	16	.3
5	0.60	182	4082	69.8	14	14.00	215	2175	37.2	23	330.0	72	404	6.9	32	8000	5	8	.1
6	0.80	203	3900	66.7	15	20.00	213	1960	33.5	24	480.0	81	332	5.7	33	11000	3	3	.0
7	1.20	153	3697	63.3	16	28.00	254	1747	29.9	25	680.0	64	251	4.3	34				
8	1.70	181	3544	60.6	17	40.00	284	1493	25.5	26	960.0	59	187	3.2					

## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## PRYOR CREEK NEAR PRYOR, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1948	0.20 13	0.20 13	0.24 12	0.30 11	0.45 11	0.59 9	0.74 8	0.98 6	70.80 13	244.00 12
1949	0.10 12	0.10 12	0.16 11	0.31 12	0.54 12	1.26 10	1.29 9	3.61 9	10.60 7	131.00 9
1951	1.70 14	1.70 14	1.94 14	1.94 14	2.10 14	2.54 12	3.69 11	4.85 10	44.60 11	138.00 11
1952	0.00 1	0.07 11	0.27 13	0.48 13	2.03 13	27.70 14	41.70 14	85.00 14	93.40 14	135.00 10
1953	0.00 2	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.19 2	26.30 4
1954	0.00 3	0.00 2	0.00 2	0.00 2	0.04 7	0.27 6	0.29 5	1.32 7	5.52 6	45.60 6
1955	0.00 4	0.00 3	0.00 3	0.00 3	0.00 3	0.00 2	0.03 4	0.02 3	0.24 3	15.90 1
1956	0.00 5	0.00 4	0.00 4	0.00 4	0.00 3	0.00 3	0.00 2	0.06 4	17.80 8	21.30 3
1957	0.00 6	0.00 5	0.00 5	0.00 5	0.00 4	0.00 4	0.00 3	0.00 2	0.00 1	18.00 2
1958	0.00 7	0.00 6	0.04 10	0.09 10	0.10 9	0.37 7	0.62 7	1.37 8	2.26 5	395.00 14
1959	0.00 8	0.00 7	0.00 6	0.00 6	0.00 5	0.23 5	0.44 6	0.39 5	1.88 4	29.50 5
1960	0.00 9	0.00 8	0.00 7	0.00 7	0.00 6	2.31 11	9.83 13	22.60 13	51.70 12	278.00 13
1961	0.00 10	0.00 9	0.00 8	0.00 8	0.05 8	0.40 8	1.58 10	11.70 12	23.70 9	123.00 8
1962	5.30 15	5.70 15	6.77 15	9.61 15	52.10 15	94.70 15	96.30 15	136.00 15	162.00 15	414.00 15
1963	0.00 11	0.00 10	0.00 9	0.00 9	0.29 10	5.23 13	5.62 12	6.51 11	38.50 10	56.60 7

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## PRYOR CREEK NEAR PRYOR, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1948	9050.0 4	7030.0 3	4190.0 3	2100.0 4	1430.0 3	927.0 4	644.0 4	519.0 4	386.0 4	193.0 4
1949	5650.0 6	4440.0 6	2540.0 5	1360.0 5	885.0 5	585.0 5	423.0 5	406.0 5	368.0 5	147.0 5
1950	7400.0 5	4720.0 5	2370.0 6	1240.0 6	757.0 6	401.0 6	313.0 6	278.0 6	196.0 7	115.0 7
1951	2400.0 9	2490.0 7	1190.0 7	681.0 8	399.0 10	222.0 11	162.0 11	142.0 11	151.0 9	86.7 9
1952	2240.0 10	1550.0 9	906.0 10	533.0 11	461.0 9	279.0 9	204.0 9	174.0 9	196.0 8	108.0 8
1953	3410.0 7	2030.0 8	1050.0 9	574.0 10	395.0 11	257.0 10	195.0 10	147.0 10	97.1 11	48.8 11
1954	790.0 16	576.0 16	312.0 15	151.0 15	83.2 15	58.2 14	39.0 16	29.4 16	19.4 16	12.5 16
1955	1740.0 13	581.0 15	255.0 16	134.0 16	60.8 16	44.8 16	44.9 15	36.7 15	26.2 15	18.6 15
1956	1640.0 14	768.0 13	451.0 13	229.0 13	122.0 13	82.7 13	59.6 13	44.7 14	29.4 14	23.5 14
1957	11300.0 2	6950.0 4	6320.0 2	3910.0 2	2780.0 1	1860.0 1	1410.0 1	1070.0 1	702.0 1	352.0 1
1958	1900.0 12	1210.0 12	854.0 12	748.0 7	586.0 7	337.0 7	238.0 7	180.0 8	124.0 10	64.1 10
1959	2850.0 8	1430.0 11	854.0 11	401.0 12	200.0 12	101.0 12	92.0 12	69.9 12	51.7 12	36.9 12
1960	26600.0 1	16300.0 1	9250.0 1	4450.0 1	2240.0 2	1160.0 2	851.0 3	680.0 3	504.0 3	346.0 2
1961	9220.0 3	7580.0 2	3950.0 4	2100.0 3	1130.0 4	1040.0 3	867.0 2	721.0 2	629.0 2	342.0 3
1962	2240.0 11	1500.0 10	1150.0 8	620.0 9	483.0 8	295.0 8	236.0 8	214.0 7	227.0 6	135.0 6
1963	1340.0 15	680.0 14	340.0 14	197.0 14	108.0 14	57.4 15	52.3 14	46.1 13	46.1 13	25.0 13

## STATISTICS OF ANNUAL DISCHARGE FOR WATER YEARS, 1948-63

Units of annual Discharge	Mean	Standard Deviation	Coefficient of Variation	Skew Coefficient	First Order Serial Correlation Coefficient
CFS	131	121	0.92	1.01	0.17
LOGS of CFS	1.909	0.473		-0.190	0.337

## ARKANSAS RIVER BASIN

## 07192500 NEOSHO RIVER NEAR WAGONER, OKLA.

LOCATION.--Lat 35°55'46", long 95°16'04", on south line sec.22, T.17 N., R.19 E., at bridge on State Highway 51, 2.25 mi (3.62 km) downstream from Nigger Creek, 5.0 mi (8.0 km) southeast of Wagoner, 6.0 mi (3.7 km) upstream from Fourteen Mile Creek, and at mile 13.7 (22.0 km).

DRAINAGE AREA.--12,307 mi<sup>2</sup> (35,690 km<sup>2</sup>).

PERIOD OF RECORD.--April 1924 to September 1925, October 1937 to September 1949.

AVERAGE DISCHARGE.--9 years (1944-49), 11,534 ft<sup>3</sup>/s (327 m<sup>3</sup>/s).

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

## NEOSHO RIVER NEAR WAGONER, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34		
YEAR	NUMBER OF DAYS IN CLASS																																			CFS_DAYS	
1941		6	11	8	7	9	7	13	7	10		8	11	4	15	80	46	20	19	8	4	7	15	18	11	9	2	4	1	1	2	2				2933137.0	
1942											4	2	6	10	23	67	25	39	29	19	29	20	11	14	21	14	12	7	5	5	2	1				6175578.0	
1943												1	16	14	3	4	23	161	109	68	21	16	12	14	12	7	8	1	4	3	4	5	2	1	1		5972801.0
1944											2	9	19	33	30	29	41	55	59	27	7	11	5	6	10	4	7	12								3591730.0	
1945														14	5	4	5	25	58	95	17	17	20	23	26	18	9	11	12	2	2	2				6121260.0	
1946														1	14	31	53	57	16	65	37	22	16	13	11	4	15	6	4							2880440.0	
1947										1			11	17	35	55	94	36	14	15	14	10	13	15	8	11	7	2	5	2							3115899.0
1948								3	3	4	8	13	30	36	36	53	51	33	20	13	8	5	10	7	2	11	10	5	5								3481882.0
1949												1	2	16	15	65	67	19	34	38	30	16	18	19	11	12	2										3636440.0

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	3287	100.0	9	440.00	11	3223	98.1	18	4600.0	411	1771	53.9	27	49000	53	146	4.4
1	54.00	0	3287	100.0	10	570.00	18	3212	97.7	19	6000.0	365	1360	41.4	28	64000	46	93	2.8
2	70.00	6	3287	100.0	11	740.00	21	3194	97.2	20	7800.0	175	995	30.3	29	83000	18	47	1.4
3	91.00	11	3281	99.8	12	960.00	62	3173	96.5	21	10000.0	140	820	24.9	30	110000	13	29	.8
4	120.00	8	3270	99.5	13	1300.00	120	3111	94.6	22	13000.0	125	680	20.7	31	140000	11	16	.4
5	150.00	7	3262	99.2	14	1600.00	184	2991	91.0	23	17000.0	125	555	16.9	32	180000	3	5	.1
6	200.00	9	3255	99.0	15	2100.00	300	2807	85.4	24	22000.0	107	430	13.1	33	240000	1	2	.0
7	260.00	7	3246	98.8	16	2700.00	439	2507	76.3	25	29000.0	104	323	9.8	34	310000	1	1	.0
8	340.00	16	3239	98.5	17	3600.00	297	2068	62.9	26	38000.0	73	219	6.7					

## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## NEOSHO RIVER NEAR WAGONER, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL										
1941	58.00	1	59.70	1	63.60	1	72.20	1	125.00	1	233.00	1	337.00	1	339.00	1	409.00	1	2350.00	1
1942	321.00	2	341.00	2	361.00	2	378.00	2	2210.00	6	2310.00	6	5940.00	8	6050.00	7	12100.00	9	16000.00	8
1943	643.00	4	676.00	4	960.00	4	1890.00	6	2730.00	7	4190.00	8	6640.00	9	7410.00	9	8960.00	7	11400.00	4
1944	740.00	5	1020.00	5	1030.00	5	1120.00	4	1250.00	3	1580.00	3	2160.00	3	2400.00	3	2440.00	3	14500.00	7
1945	1760.00	9	2960.00	9	3590.00	9	3600.00	9	4070.00	9	4430.00	9	4680.00	6	5300.00	6	5890.00	6	12300.00	5
1946	1290.00	8	1340.00	7	1380.00	6	1420.00	5	2000.00	4	2090.00	4	4690.00	7	6430.00	8	9390.00	8	16500.00	9
1947	1040.00	6	1240.00	6	1840.00	7	1960.00	7	2170.00	5	2290.00	5	2390.00	4	2680.00	4	3210.00	4	4730.00	2
1948	374.00	3	394.00	3	856.00	3	1080.00	3	1160.00	2	1400.00	2	1630.00	2	1790.00	2	2000.00	2	8260.00	3
1949	1290.00	7	1840.00	8	2670.00	8	2810.00	8	2910.00	8	3020.00	7	3100.00	5	3200.00	5	5820.00	5	12500.00	6

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## NEOSHO RIVER NEAR WAGONER, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1941	174000.0	3 156000.0	3 98800.0	4 52600.0	6 28600.0	7 22800.0	7 17800.0	7 13900.0	8 12100.0	8 8040.0
1942	182000.0	2 168000.0	2 132000.0	2 83300.0	3 72200.0	2 48300.0	2 34100.0	3 26600.0	3 19900.0	3 16900.0
1943	372000.0	1 305000.0	1 222000.0	1 164000.0	1 107000.0	1 62700.0	1 44700.0	1 35200.0	1 26200.0	1 16400.0
1944	74900.0	7 70400.0	7 68200.0	7 52000.0	7 51300.0	4 34200.0	5 25600.0	5 22200.0	4 16400.0	5 9810.0
1945	163000.0	4 151000.0	4 122000.0	3 95600.0	2 64800.0	3 46800.0	3 38700.0	2 34100.0	2 25700.0	2 16800.0
1946	55300.0	8 53800.0	8 47700.0	8 33700.0	9 21200.0	9 13300.0	9 11100.0	9 9990.0	9 10100.0	9 7890.0
1947	98700.0	5 87700.0	6 72400.0	6 53600.0	5 43500.0	5 30700.0	6 24600.0	6 19600.0	6 15900.0	7 8540.0
1948	98400.0	6 94600.0	5 86300.0	5 61400.0	4 42400.0	6 39500.0	4 27900.0	4 22100.0	5 16800.0	4 9510.0
1949	51300.0	9 49100.0	9 45600.0	9 36200.0	8 27900.0	8 19900.0	8 16700.0	8 17800.0	7 16300.0	6 9960.0

## ARKANSAS RIVER BASIN

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07193500 NEOSHO RIVER BELOW FORT GIBSON LAKE, NEAR FORT GIBSON, OKLA.

LOCATION.--Lat 35°51'15", long 95°13'45", in SE 1/4 NW 1/4 sec.19, T.16 N., R.20 E., Cherokee County, on left bank 1.1 mi (1.8 km) downstream from Fort Gibson Dam, 4.5 mi (7.2 km) north of Fort Gibson, and at mile 6.6 (10.6 km).

DRAINAGE AREA.--12,495 mi<sup>2</sup> (32,362 km<sup>2</sup>).

PERIOD OF RECORD.--May 1950 to September 1974. Record for 1971 water year was withheld.

AVERAGE DISCHARGE.--23 years (1951-70, 1972-74), 7,696 ft<sup>3</sup>/s (218 m<sup>3</sup>/s).

REMARKS.--Flow completely regulated by Fort Gibson Lake in Oklahoma.

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

NEOSHO RIVER BELOW FT GIBSON RES NEAR FT GIBSON, OKLAHOMA

CLASS 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34

YEAR	NUMBER OF DAYS IN CLASS																																	CFS_DAYS		
1951	1																																	5145673.0		
1952	2																																	2740888.0		
1953	3 3 5 2 10 12105 34 30 49 20 13 15 7 17 24 11 2 1 2																																	703581.0		
1954	33 49 13 35 45 35 9 17 34 14 18 4 13 24 3 19 2																																	422628.0		
1955	6 7 5 5 6 5 9 10 7 21 31 54 69 75 31 11 7 1 3 1 1																																	1054702.0		
1956	1	4	1	6	5	10	8	7	14	8	15	16	30	45	33	26	21	22	35	33	13	10	3												566112.0	
1957	1		1	2	1	8	17	14	10	16	14	22	17	11	11	14	13	19	27	26	15	12	13	14	8	4	10	5	10	20	6	1	2	1	4196423.0	
1958	3 2 2 1 2 6 3 6 11 6 15 23 21 22 33 31 19 21 23 35 20 11 4 8 8 6 6 2																																	3143098.0		
1959	1	5	7	6	8	6	4	3	3	1	5	7	11	17	9	22	21	42	29	41	29	28	20	19	4	4	5	3								1561880.0
1960		1	1	1				2	1	2	5	4	2	2	5	11	14	27	25	41	49	40	62	32	8	9	5	8	6	3						3788117.0
1961	1 3 1 2 2 4 2 3 4 12 9 6 10 21 17 23 29 38 31 36 41 12 11 8 6 8 11 5																																	4867330.0		
1962	1 1 2 6 4 1 2 2 3 3 3 23 21 36 38 28 13 46 51 27 2																																	3141995.0		
1963	2 2 2 5 2 8 9 16 14 19 21 21 25 22 23 38 43 25 18 9 22 9 3 4 3																																	1370508.0		
1964	1 14 68 23 16 18 24 24 24 7 8 7 17 14 8 10 11 31 15 4 2 9 3 3																																	826213.0		
1965	2 1 3 2 5 1 3 7 5 9 12 15 13 21 35 29 29 23 31 36 12 18 21 16 8 1 4 3																																	2260185.0		
1966	1 1 4 1 1 1 3 3 6 9 2 12 25 17 18 35 46 43 51 23 20 6 31 4 2																																	1266450.0		
1967	3 1 1 3 1 1 1 5 7 18 21 36 43 39 43 14 15 10 17 13 16 8 17 18 4 4 2																																	1368861.0		
1968	1 2 4 4 6 3 10 6 12 26 23 28 41 34100 29 12 17 7																																	3379801.0		
1969	1 1 4 1 4 1 3 3 5 14 12 12 19 14 20136 62 39 10 2 1																																	4119573.0		
1970	2 1 2 2 6 2 1 5 7 13 8 8 10 9 12 23 19 43 31 39 23 48 23 3 3 6 14																																	2808809.0		
1972	20	7	3	5	4	3	1	2	3	3	4	2	5	9	7	6	17	21	23	40	33	37	33	14	38	17	1	4	4						1824547.7	
1973	4 2 1 1 4 3 2 2 8 7 8 4 12 34 22 11 53 26 28 38 19 65 11																																	7448427.0		
1974	6 1 1 1 1 2 1 9 7 16 20 20 5 71 93 23 19 23 36 10																																	6612534.0		

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	20	8401	100.0	9	140.00	111	7873	93.7	18	1800.0	511	5595	66.6	27	23000	153	543	6.4
1	15.00	20	8381	99.8	10	190.00	143	7762	92.4	19	2400.0	573	5084	60.5	28	31000	105	390	4.6
2	20.00	21	8361	99.5	11	250.00	198	7619	90.7	20	3200.0	694	4511	53.7	29	41000	162	285	3.3
3	26.00	22	8340	99.3	12	330.00	200	7421	88.3	21	4300.0	575	3817	45.4	30	54000	77	123	1.4
4	35.00	50	8318	99.0	13	440.00	322	7221	86.0	22	5600.0	622	3242	38.6	31	72000	30	46	.5
5	46.00	102	8268	98.4	14	590.00	290	6899	82.1	23	7500.0	343	2620	31.2	32	95000	12	16	.1
6	62.00	59	8166	97.2	15	780.00	289	6609	78.7	24	9900.0	934	2277	27.1	33	130000	3	4	.0
7	82.00	114	8107	96.5	16	1000.00	374	6320	75.2	25	13000.0	583	1343	16.0	34	170000	1	1	.0
8	110.00	120	7993	95.1	17	1400.00	351	5946	70.8	26	17000.0	217	760	9.0					



## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## NEOSHO RIVER BELOW FT GIBSON RES NEAR FT GIBSON, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1951	35.00 15	259.00 16	661.00 18	5220.00 21	5620.00 20	7020.00 20	7730.00 20	9310.00 20	9990.00 19	16100.00 19
1952	132.00 20	164.00 11	322.00 9	437.00 9	494.00 9	564.00 5	622.00 5	655.00 5	809.00 5	2990.00 7
1953	87.00 18	86.30 5	118.00 4	169.00 4	211.00 4	269.00 4	293.00 4	341.00 3	352.00 2	1610.00 3
1954	90.00 19	93.00 6	93.90 3	99.30 3	112.00 3	203.00 3	230.00 3	493.00 4	950.00 6	2040.00 4
1955										
1956	50.00 17	151.00 10	249.00 7	349.00 7	457.00 7	582.00 6	698.00 6	1030.00 7	1530.00 7	2570.00 6
1957	17.00 3	26.70 2	34.30 1	56.30 2	109.00 2	147.00 2	197.00 2	273.00 2	458.00 3	1260.00 2
1958	42.00 16	190.00 13	462.00 13	595.00 13	888.00 13	1320.00 11	1420.00 8	1440.00 8	1860.00 8	13100.00 18
1959	28.00 12	148.00 9	433.00 11	516.00 12	629.00 10	1010.00 10	1530.00 9	1620.00 9	2710.00 10	7980.00 13
1960	18.00 4	296.00 17	579.00 17	1270.00 17	1810.00 17	4200.00 19	4090.00 17	5820.00 17	5650.00 15	9090.00 15
1961	24.00 8	313.00 16	435.00 12	501.00 11	821.00 12	1600.00 13	2650.00 14	3290.00 15	3390.00 11	6130.00 10
1962	465.00 21	1420.00 21	2250.00 21	2830.00 21	6120.00 21	7860.00 21	8390.00 21	9620.00 21	11300.00 20	17000.00 20
1963	35.00 13	252.00 15	464.00 14	637.00 14	1010.00 15	2190.00 15	2400.00 13	2880.00 13	5900.00 16	5870.00 9
1964	35.00 14	42.70 3	46.30 2	48.30 1	51.00 1	54.70 1	54.90 1	73.30 1	156.00 1	918.00 1
1965	26.00 11	75.70 4	130.00 5	231.00 6	461.00 8	678.00 8	1620.00 10	1930.00 10	2060.00 9	3350.00 8
1966	23.00 7	121.00 8	367.00 10	457.00 10	689.00 11	914.00 9	1690.00 12	1930.00 11	3450.00 12	6720.00 11
1967	22.00 6	117.00 7	315.00 8	380.00 8	442.00 6	613.00 7	709.00 7	776.00 6	746.00 4	2150.00 5
1968	25.00 9	336.00 19	464.00 15	785.00 15	976.00 14	1970.00 14	4470.00 18	6460.00 18	6330.00 17	8330.00 14
1969	26.00 10	501.00 20	1040.00 19	2260.00 18	2350.00 18	2640.00 17	3490.00 16	4650.00 16	6560.00 18	9720.00 16
1970	20.00 5	167.00 12	535.00 16	846.00 16	1020.00 16	1430.00 12	1680.00 11	2280.00 12	3650.00 13	7730.00 12
1971										
1972	0.00 1	5.27 1	168.00 6	225.00 5	378.00 5	2230.00 16	2670.00 15	2900.00 14	3790.00 14	11900.00 17
1973	15.00 2	219.00 14	1990.00 20	3100.00 20	3790.00 19	4160.00 18	4670.00 19	6810.00 19	12700.00 21	22400.00 21

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS, IN YEAR ENDING SEPTEMBER 30

## NEOSHO RIVER BELOW FT GIBSON RES NEAR FT GIBSON, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1951	132000.0 2	124000.0 2	114000.0 2	96400.0 1	76100.0 1	45200.0 3	35200.0 3	29300.0 3	22100.0 4	14100.0 3
1952	39500.0 15	35500.0 15	27200.0 16	21100.0 16	17500.0 14	12900.0 14	11800.0 13	10600.0 13	11000.0 12	7490.0 12
1953	22000.0 20	17400.0 20	11800.0 21	9600.0 21	7770.0 20	6510.0 19	5410.0 19	4270.0 21	3180.0 21	1930.0 21
1954	9000.0 22	8270.0 22	7100.0 23	6220.0 22	5490.0 22	4150.0 22	3500.0 22	2860.0 22	2000.0 22	1160.0 23
1955	26800.0 18	20300.0 19	15000.0 19	11100.0 20	7660.0 21	5620.0 21	4730.0 20	4410.0 20	3840.0 20	2690.0 19
1956	8430.0 23	7500.0 23	7130.0 22	5170.0 23	3800.0 23	3030.0 23	2550.0 23	2190.0 23	1670.0 23	1550.0 22
1957	220000.0 1	182000.0 1	122000.0 1	89000.0 2	71400.0 2	49400.0 1	39500.0 2	32100.0 2	22000.0 5	11500.0 5
1958	75300.0 5	71800.0 5	66900.0 5	50300.0 7	35300.0 7	22300.0 8	16700.0 8	16300.0 6	14900.0 6	8610.0 9
1959	36300.0 16	34200.0 16	28900.0 15	21500.0 15	14600.0 16	9090.0 18	8300.0 17	7120.0 17	6320.0 16	4280.0 15
1960	63200.0 4	61400.0 4	66200.0 4	57800.0 4	37200.0 4	23600.0 7	17700.0 7	15100.0 9	12600.0 8	10400.0 7
1961	110000.0 3	107000.0 3	98100.0 3	85300.0 3	68900.0 3	40700.0 4	31500.0 4	26500.0 4	22600.0 3	13300.0 4
1962	25000.0 19	23100.0 18	19400.0 18	16800.0 17	16800.0 15	14700.0 12	13900.0 12	12500.0 12	11300.0 11	8610.0 10
1963	56000.0 17	33600.0 17	24600.0 17	16900.0 16	15500.0 17	10900.0 16	8410.0 16	7220.0 16	5820.0 17	3750.0 17
1964	73400.0 6	62700.0 6	42700.0 10	27300.0 11	16800.0 16	9830.0 17	7590.0 18	6260.0 18	4360.0 18	2260.0 20
1965	57700.0 9	56300.0 9	51400.0 8	36700.0 9	25300.0 9	14400.0 13	14500.0 11	13000.0 10	10000.0 13	6190.0 13
1966	19200.0 21	17100.0 21	13600.0 20	11400.0 19	8390.0 19	6090.0 20	4730.0 21	4820.0 19	4120.0 19	3470.0 18
1967	44800.0 11	42300.0 11	34400.0 11	29400.0 10	21800.0 10	15700.0 10	11500.0 14	9440.0 14	6850.0 14	3810.0 16
1968	40200.0 14	36700.0 14	29100.0 14	23200.0 13	18200.0 11	14800.0 11	14800.0 10	13000.0 11	11900.0 9	9230.0 8
1969	44000.0 12	40000.0 12	29500.0 13	23300.0 14	18200.0 12	16800.0 9	16000.0 9	15500.0 8	14500.0 7	11300.0 6
1970	51700.0 10	49800.0 10	47600.0 9	45100.0 8	31900.0 8	23900.0 6	19500.0 6	15900.0 7	11700.0 10	7700.0 11
1971										
1972	40300.0 13	36900.0 13	32100.0 12	24100.0 12	17900.0 13	11400.0 15	9290.0 15	7990.0 15	6460.0 15	4990.0 14
1973	71800.0 7	66300.0 7	61200.0 7	54000.0 6	50500.0 4	46500.0 2	42900.0 1	36900.0 1	31100.0 1	20400.0 1
1974	71300.0 6	67700.0 6	65000.0 6	54700.0 5	41800.0 5	30800.0 5	28400.0 5	25700.0 5	24100.0 2	18100.0 2

ARKANSAS RIVER BASIN

161

07194500 ARKANSAS RIVER NEAR MUSKOGEE, OKLA.

LOCATION.--Lat 35°46'10", long 95°17'55", in NW 1/4 sec.21, T.15 N., R.19 E., on downstream side of left pier of bridge on U.S. Highway 62, 1.7 mi (2.7 km) downstream from Neosho River, 3.5 mi (5.6 km) northeast of Muskogee, and at mile 457.8 (736.6 km).

DRAINAGE AREA.--96,674 mi<sup>2</sup> (250,386 km<sup>2</sup>) of which 12,541 mi<sup>2</sup> (32,481 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD.--October 1925 to September 1970. Statistical summaries for this station are divided into unregulated and regulated periods.

AVERAGE DISCHARGE.--39 years (1926-64), 19,912 ft<sup>3</sup>/s (564 m<sup>3</sup>/s); 6 years (1965-70), 16,067 ft<sup>3</sup>/s (480 m<sup>3</sup>/s).

REMARKS.--Natural flow of stream affected by storage reservoirs and power development. Flow regulated since 1964 by Keystone Reservoir.

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

ARKANSAS RIVER NEAR MUSKOGEE, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS	
1926												1	13	34	82	59	48	28	23	22	15	7	17	3	1	3	3	1							4096030.0	
1927																																				16748890.0
1928																																				9739480.0
1929																																				13192650.0
1930																																				4749370.0
1931																																				3093220.0
1932																																				4774760.0
1933																																				4166800.0
1934																																				2532797.0
1935																																				10302900.0
1936																																				2739035.0
1937																																				6184920.0
1938																																				6607700.0
1939																																				2088377.0
1940																																				1536076.0
1941																																				6931091.0
1942																																				15668200.0
1943																																				12309000.0
1944																																				9118610.0
1945																																				13619180.0
1946																																				6754630.0
1947																																				8204420.0
1948																																				6501420.0
1949																																				11233590.0
1950																																				6760350.0
1951																																				13208290.0
1952																																				6126900.0
1953																																				1760455.0
1954																																				1277852.0
1955																																				2654898.0
1956																																				1454982.0
1957																																				12434567.0
1958																																				7657210.0
1959																																				4817520.0
1960																																				11761390.0
1961																																				12422130.0
1962																																				9015870.0
1963																																				3281730.0
1964																																				2079468.0

CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT
0	0.00	0	14245	100.0	9	680.00	179	13849	97.6	18	8100.0	1357	6946	48.8	27	45000	281	636	4.4
1	76.00	2	14245	100.0	10	900.00	300	13720	96.3	19	11000.0	1006	5589	39.2	28	150000	162	355	2.4
2	100.00	3	14243	100.0	11	1200.00	531	13420	94.2	20	14000.0	862	4583	32.2	29	160000	121	193	1.3
3	130.00	16	14240	100.0	12	1600.00	453	12884	90.5	21	16000.0	841	3721	26.1	30	220000	47	72	.5
4	170.00	28	14224	99.9	13	2000.00	747	12436	87.3	22	24000.0	702	2880	20.2	31	280000	20	25	.1
5	230.00	27	14196	99.7	14	2700.00	930	11689	82.1	23	32000.0	526	2178	15.3	32	370000	2	5	.0
6	300.00	54	14169	99.5	15	3500.00	1271	10759	75.5	24	42000.0	390	1652	11.6	33	490000	2	3	.0
7	390.00	72	14115	99.1	16	4700.00	1261	9488	66.6	25	55000.0	323	1262	8.9	34	650000	1	1	
8	520.00	144	14043	98.6	17	6100.00	1261	8207	57.6	26	72000.0	303	939	6.6					

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## ARKANSAS RIVER NEAR MUSKOGEE, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1927	1910.00 21	2200.00 20	2250.00 20	2430.00 20	3000.00 20	5320.00 27	8250.00 30	9370.00 29	16500.00 28	23400.00 23
1928	4180.00 36	5050.00 36	5930.00 36	6810.00 35	8090.00 34	9440.00 33	9870.00 31	11000.00 30	17200.00 32	40000.00 36
1929	2520.00 27	2690.00 27	2730.00 23	2960.00 24	3550.00 24	3660.00 22	5520.00 25	11000.00 31	17000.00 30	27100.00 26
1930	2360.00 26	2470.00 23	2500.00 21	2690.00 22	3140.00 22	3880.00 23	4040.00 17	4060.00 13	4710.00 10	30100.00 28
1931	1520.00 17	1560.00 16	1640.00 15	1820.00 15	2090.00 15	2470.00 14	5080.00 22	4960.00 18	5720.00 15	12200.00 15
1932	1090.00 14	1160.00 14	1250.00 13	1390.00 13	1680.00 14	2700.00 15	3040.00 14	4440.00 16	7600.00 22	13300.00 16
1933	910.00 9	910.00 9	941.00 9	1020.00 9	1070.00 9	1290.00 9	1440.00 7	1690.00 7	5420.00 13	8520.00 9
1934	1510.00 16	1680.00 17	1840.00 16	1900.00 16	2300.00 16	2880.00 17	5010.00 20	5380.00 22	6220.00 17	11200.00 12
1935	154.00 2	158.00 2	180.00 2	201.00 2	271.00 2	678.00 5	1550.00 9	3460.00 12	5530.00 14	10900.00 11
1936	1680.00 18	1800.00 18	2000.00 18	2100.00 17	2560.00 17	2880.00 18	3330.00 15	5980.00 24	8700.00 23	25400.00 25
1937	340.00 4	340.00 4	351.00 4	365.00 4	467.00 4	645.00 4	1430.00 6	4230.00 14	6270.00 18	11800.00 13
1938	910.00 10	993.00 10	1030.00 10	1140.00 12	1230.00 11	1520.00 12	1660.00 10	2000.00 9	4370.00 9	12000.00 14
1939	983.00 11	1020.00 11	1110.00 12	1130.00 11	1290.00 12	1510.00 11	1810.00 12	1840.00 8	2290.00 7	15500.00 18
1940	500.00 5	500.00 5	500.00 5	533.00 5	597.00 5	629.00 3	666.00 3	670.00 2	793.00 2	5000.00 5
1941	650.00 7	685.00 8	708.00 7	776.00 7	861.00 6	1390.00 10	5020.00 21	5350.00 21	5780.00 16	8410.00 8
1942	2530.00 28	2550.00 24	2560.00 22	2670.00 21	4660.00 29	6710.00 32	13100.00 34	13600.00 33	28600.00 37	35300.00 33
1943	5650.00 38	6150.00 37	7160.00 37	7990.00 36	8700.00 35	10500.00 35	14200.00 35	16200.00 35	18600.00 33	31200.00 30
1944	1850.00 19	1930.00 19	2020.00 19	2270.00 19	2570.00 18	3630.00 21	4390.00 19	5090.00 19	5140.00 11	30600.00 29
1945	3650.00 35	4720.00 35	5590.00 35	5970.00 34	8740.00 36	9690.00 34	10400.00 32	14900.00 34	17000.00 31	32000.00 31
1946	2640.00 29	2680.00 26	2760.00 24	2920.00 23	4580.00 27	5150.00 26	10800.00 33	13400.00 32	23200.00 36	36900.00 34
1947	2190.00 23	2590.00 25	2990.00 27	3070.00 26	3220.00 23	3620.00 20	3660.00 16	4450.00 17	6730.00 21	9790.00 10
1948	1470.00 15	1540.00 15	1840.00 17	2100.00 18	2640.00 19	2840.00 16	2950.00 13	3050.00 11	3290.00 8	21700.00 21
1949	3020.00 31	3780.00 32	4610.00 32	4680.00 32	4780.00 30	6100.00 30	6840.00 27	6800.00 25	16500.00 29	32700.00 32
1950	3510.00 34	3510.00 31	4860.00 33	5500.00 33	5650.00 33	6000.00 29	7560.00 28	8280.00 27	9160.00 24	22600.00 22
1951	3380.00 33	3800.00 33	3950.00 30	4520.00 31	4940.00 31	5060.00 25	5160.00 23	5490.00 23	10400.00 26	24600.00 24
1952	3090.00 32	3810.00 34	5110.00 34	10900.00 36	12300.00 37	13700.00 37	15000.00 37	19800.00 37	22100.00 35	42000.00 37
1953	1040.00 12	1040.00 12	1060.00 11	1070.00 10	1090.00 10	1260.00 7	1470.00 8	1590.00 6	1900.00 6	6940.00 6
1954	566.00 6	652.00 6	745.00 8	774.00 6	984.00 7	1260.00 8	1340.00 5	1530.00 5	1570.00 3	4380.00 4
1955	200.00 3	202.00 3	206.00 3	235.00 3	276.00 3	403.00 2	600.00 2	1210.00 3	1590.00 4	4360.00 3
1956	1040.00 13	1140.00 13	1260.00 14	1420.00 14	1580.00 13	1690.00 13	1750.00 11	2180.00 10	5310.00 12	8240.00 7
1957	76.00 1	92.00 1	120.00 1	147.00 1	232.00 1	290.00 1	405.00 1	490.00 1	763.00 1	2050.00 1
1958	2340.00 25	3020.00 26	3340.00 28	3790.00 29	4660.00 28	4850.00 24	5360.00 24	5290.00 20	6390.00 20	39600.00 35
1959	1890.00 20	2250.00 21	2820.00 26	3060.00 25	3130.00 21	3540.00 19	4130.00 18	4360.00 15	6300.00 19	17800.00 19
1960	1960.00 22	3070.00 29	4020.00 31	4480.00 30	5260.00 32	12600.00 36	14600.00 36	17700.00 36	20100.00 34	29700.00 27
1961	2790.00 30	3430.00 30	3600.00 29	3750.00 28	4230.00 25	5700.00 28	7600.00 29	8970.00 28	9490.00 25	18200.00 20
1962	5100.00 37	6970.00 38	8110.00 38	8950.00 37	13800.00 38	19500.00 38	19300.00 38	23200.00 38	32700.00 38	44600.00 38
1963	2240.00 24	2420.00 22	2790.00 25	3410.00 27	4300.00 26	6240.00 31	6620.00 26	7190.00 26	11600.00 27	14200.00 17
1964	678.00 8	682.00 7	689.00 6	782.00 8	1010.00 8	1100.00 6	1240.00 4	1320.00 4	1630.00 5	4090.00 2

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## ARKANSAS RIVER NEAR MUSKOGEE, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1926	139000.0 22	121000.0 23	99300.0 25	65900.0 25	42400.0 25	24800.0 29	18100.0 29	18400.0 28	16500.0 27	11200.0 28
1927	322000.0 4	307000.0 3	292000.0 2	243000.0 2	176000.0 4	107000.0 7	87200.0 5	72400.0 6	63600.0 2	45900.0 1
1928	193000.0 15	179000.0 16	149000.0 17	123000.0 16	93500.0 16	60300.0 17	53100.0 16	47000.0 15	37600.0 16	26600.0 12
1929	245000.0 8	230000.0 11	201000.0 10	178000.0 10	133000.0 10	113000.0 5	93000.0 4	78600.0 3	56700.0 5	36100.0 5
1930	131000.0 25	107000.0 26	95000.0 26	77500.0 22	56900.0 22	44900.0 21	31900.0 21	24900.0 22	21100.0 24	13000.0 25
1931	53000.0 39	42200.0 39	34200.0 38	23500.0 38	21000.0 34	19000.0 32	17400.0 30	14600.0 30	12000.0 29	8470.0 30
1932	94200.0 30	87200.0 29	83600.0 27	68600.0 26	38100.0 27	27500.0 27	26100.0 25	22100.0 25	16300.0 26	13000.0 26
1933	163000.0 18	157000.0 18	107000.0 21	61700.0 27	42300.0 26	31400.0 25	24000.0 26	19300.0 27	16900.0 26	11500.0 27
1934	57200.0 38	53100.0 37	43000.0 36	27100.0 36	16900.0 36	13900.0 36	10400.0 36	8520.0 36	6160.0 35	6940.0 33
1935	243000.0 9	237000.0 8	212000.0 9	180000.0 9	161000.0 5	114000.0 4	80000.0 7	67900.0 7	47600.0 9	28200.0 11
1936	98000.0 29	90800.0 27	49300.0 34	31300.0 33	21100.0 33	19100.0 31	14500.0 33	11800.0 33	8700.0 34	7480.0 31
1937	135000.0 23	116000.0 24	102000.0 22	71400.0 24	47900.0 24	24600.0 26	23600.0 27	20500.0 26	21300.0 23	17000.0 22
1938	148000.0 21	141000.0 20	127000.0 19	115000.0 17	93200.0 17	61400.0 16	51800.0 17	42100.0 17	32100.0 19	18100.0 21
1939	67400.0 34	58400.0 34	37800.0 37	33500.0 32	23700.0 32	19300.0 30	15400.0 31	12700.0 31	9530.0 33	5720.0 34
1940	129000.0 26	86600.0 30	48800.0 33	25400.0 37	16000.0 37	9370.0 39	6670.0 39	6290.0 37	7520.0 37	4200.0 37
1941	240000.0 10	236000.0 9	177000.0 13	107000.0 19	66000.0 20	55900.0 18	45000.0 18	35100.0 20	28600.0 20	19000.0 19
1942	297000.0 5	284000.0 5	258000.0 4	191000.0 6	145000.0 6	99900.0 8	71600.0 9	55900.0 10	43800.0 10	42900.0 2
1943	651000.0 1	603000.0 1	475000.0 1	346000.0 1	231000.0 1	134000.0 2	93400.0 3	73100.0 3	54200.0 7	53700.0 8
1944	180000.0 17	165000.0 17	160000.0 15	154000.0 11	142000.0 9	94000.0 10	71100.0 10	59100.0 9	42700.0 11	24900.0 13
1945	524000.0 3	307000.0 4	263000.0 3	224000.0 3	148000.0 6	107000.0 6	82200.0 6	73300.0 4	54400.0 6	37300.0 3
1946	220000.0 12	211000.0 12	164000.0 11	129000.0 15	72400.0 18	39600.0 22	27900.0 23	28300.0 21	25600.0 21	18500.0 20
1947	192000.0 16	183000.0 15	155000.0 16	137000.0 14	107000.0 13	86000.0 12	67800.0 12	54700.0 12	36000.0 15	22500.0 17
1948	266000.0 13	194000.0 13	180000.0 12	147000.0 12	113000.0 12	98300.0 9	70200.0 11	55600.0 11	42300.0 12	23000.0 16
1949	203000.0 14	194000.0 14	174000.0 14	137000.0 13	104000.0 15	76000.0 14	56400.0 13	54500.0 13	51800.0 10	50800.0 10
1950	154000.0 19	147000.0 19	135000.0 18	114000.0 18	97800.0 15	69600.0 15	53700.0 15	50800.0 14	38900.0 14	24000.0 15
1951	239000.0 11	231000.0 10	213000.0 8	191000.0 7	177000.0 3	117000.0 3	99000.0 2	79600.0 2	61900.0 3	36200.0 4
1952	81000.0 33	75300.0 33	62900.0 28	48100.0 28	36200.0 28	32900.0 23	27800.0 24	24800.0 23	24200.0 22	16700.0 23
1953	60300.0 35	44400.0 36	28000.0 39	19700.0 39	18000.0 37	14000.0 35	11800.0 35	9650.0 35	7400.0 36	4420.0 36
1954	60300.0 36	56600.0 35	41000.0 32	30300.0 35	19400.0 36	13300.0 37	10100.0 37	8040.0 36	5710.0 36	3500.0 39
1955	85000.0 32	78000.0 32	53600.0 31	45200.0 29	29800.0 29	25400.0 26	19000.0 28	15600.0 29	11700.0 30	7270.0 32
1956	104000.0 28	90200.0 28	61300.0 29	34900.0 31	20500.0 35	11700.0 38	8960.0 38	7210.0 34	5310.0 34	3960.0 38
1957	357000.0 2	316000.0 2	251000.0 5	214000.0 4	181000.0 2	155000.0 1	123000.0 1	96800.0 1	66500.0 1	34100.0 6
1958	135000.0 24	127000.0 22	109000.0 20	89200.0 20	66500.0 19	46800.0 20	36500.0 20	37500.0 19	34900.0 17	21000.0 18
1959	115000.0 27	112000.0 25	102000.0 23	86300.0 21	53700.0 23	31600.0 24	29300.0 22	24400.0 24	20100.0 25	13200.0 24
1960	280000.0 7	277000.0 6	241000.0 6	180000.0 6	127000.0 11	74500.0 13	54900.0 14	45500.0 16	39400.0 13	32200.0 9
1961	284000.0 6	272000.0 7	255000.0 7	191000.0 5	146000.0 7	92500.0 11	73100.0 13	62700.0 16	56700.0 4	34000.0 7
1962	154000.0 20	137000.0 21	101000.0 24	73500.0 23	63100.0 21	51200.0 19	44800.0 19	37600.0 18	32500.0 16	24700.0 14
1963	59500.0 37	56300.0 36	43600.0 35	30800.0 34	25300.0 30	17600.0 33	14500.0 32	13100.0 31	11400.0 31	8990.0 29
1964	90100.0 31	83400.0 31	57900.0 30	37200.0 30	24000.0 31	15300.0 34	13000.0 34	11200.0 34	9730.0 32	6680.0 33

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

## ARKANSAS RIVER NEAR MUSKOGEE, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
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YEAR	NUMBER OF DAYS IN CLASS																																			CFS-DAYS
1965	1	2	7	3	5	11	2	2	4	2	5	6	17	17	25	22	20	31	13	30	26	14	9	5	11	9	9	5	14	14	7	12	3	2	6952201.0	
1966						2	1	6	13	20	37	22	46	29	41	25	31	19	8	17	12	16	16	2	2										2543190.0	
1967	2	1	6	8	20	21	25	46	29	17	19	16	18	10	10	4	7	12	9	11	10	1	10	9	17	4	5	5	3	5	5			3333232.0		
1968											2	4	4	6	9	19	18	27	17	15	31	58	21	36	26	21	8	11	8	10	7	8		6714980.0		
1969											2	3	5	2	6	7	7	6	7	9	12	27	35	39	30	19	32	19	32	30	26	2	9	2	10684040.0	
1970					1	5	4	8	10	7	4	9	12	20	26	14	26	30	19	30	24	7	12	8	5	17	24	8	4	4	5	19	3	6919680.0		

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	2191	100.0	9	2000.00	56	2002	91.4	18	8400.0	116	1255	56.4	27	34000	68	322	14.6	28	40000	58	254	11.5
1	585.00	3	2191	100.0	10	2400.00	50	1946	88.8	19	9800.0	73	1119	51.1	28	40000	58	254	11.5	29	47000	61	196	8.9
2	680.00	3	2188	99.9	11	2800.00	72	1896	86.5	20	11000.0	131	1046	47.7	29	47000	61	196	8.9	30	55000	58	135	6.1
3	800.00	13	2185	99.7	12	3300.00	62	1824	83.2	21	13000.0	152	915	41.8	30	55000	58	135	6.1	31	64000	27	77	3.5
4	940.00	11	2172	99.1	13	3800.00	101	1762	80.4	22	16000.0	94	763	34.8	31	64000	27	77	3.5	32	75000	40	50	2.2
5	1100.00	26	2161	98.6	14	4500.00	91	1661	75.8	23	18000.0	122	669	30.5	32	75000	40	50	2.2	33	87000	8	10	.4
6	1300.00	39	2135	97.4	15	5200.00	128	1570	71.7	24	21000.0	80	547	25.0	33	87000	8	10	.4	34	100000	2	2	.0
7	1500.00	32	2096	95.7	16	6100.00	90	1442	65.8	25	25000.0	75	467	21.3										
8	1700.00	62	2064	94.2	17	7100.00	117	1352	61.7	26	29000.0	70	342	17.9										

## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## ARKANSAS RIVER NEAR MUSKOGEE, OKLAHOMA

YEAR	1		3		7		14		30		60		90		120		183		ANNUAL	
1966	1810.00	4	2020.00	4	2270.00	3	2510.00	2	2910.00	2	3370.00	2	4230.00	2	4560.00	2	7100.00	2	17000.00	3
1967	585.00	1	726.00	1	896.00	1	1040.00	1	1190.00	1	1420.00	1	1570.00	1	1690.00	1	2050.00	1	4520.00	1
1968	1110.00	2	1350.00	2	1540.00	2	3580.00	4	4390.00	4	5730.00	4	9750.00	4	12900.00	5	12800.00	4	16700.00	2
1969	3490.00	5	3960.00	5	4790.00	5	5070.00	5	5820.00	5	8930.00	5	11200.00	5	11700.00	4	15700.00	5	21400.00	4
1970	1680.00	3	1910.00	3	2530.00	4	3240.00	3	3710.00	3	4370.00	3	5260.00	3	6170.00	3	9990.00	3	22600.00	5

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## ARKANSAS RIVER NEAR MUSKOGEE, OKLAHOMA

YEAR	1		3		7		15		30		60		90		120		185		ANNUAL
1965	104000.0	1	99900.0	1	91100.0	1	74300.0	2	51200.0	3	34500.0	3	37100.0	3	32600.0	3	27100.0	3	19000.0
1966	26100.0	6	23500.0	6	19700.0	6	17000.0	6	13700.0	6	11800.0	6	9140.0	6	9570.0	6	8430.0	6	6970.0
1967	74600.0	4	73100.0	4	63900.0	4	59700.0	4	44800.0	4	34400.0	4	25300.0	5	21700.0	5	16200.0	5	9150.0
1968	70500.0	5	67500.0	5	63600.0	5	48300.0	5	38700.0	5	30700.0	5	30500.0	4	27700.0	4	23800.0	4	18400.0
1969	91800.0	2	86400.0	3	86200.0	3	71700.0	3	62400.0	2	55200.0	1	52400.0	1	49800.0	1	40900.0	1	29300.0
1970	89700.0	3	87500.0	2	86300.0	2	85300.0	1	78600.0	1	55000.0	2	47900.0	2	39000.0	2	27900.0	2	19000.0

## ARKANSAS RIVER BASIN

07195500 ILLINOIS RIVER NEAR WATTS, OKLA.

LOCATION.--Lat 36°07'48", long 94°34'12", in NE 1/4 sec.18, T.19 N., R.26 E., Adair County, near right bank on downstream side of pier of bridge on U.S. Highway 59, 1.5 mi (2.4 km) north of Watts, 4.5 mi (7.2 km) downstream from Cincinnati Creek, and at mile 106.2 (170.9 km).

DRAINAGE AREA.--635 mi<sup>2</sup> (1,645 km<sup>2</sup>).

PERIOD OF RECORD.--August 1955 to September 1974.

AVERAGE DISCHARGE.--19 years (1956-74), 600 ft<sup>3</sup>/s (17.0 m<sup>3</sup>/s).

REMARKS.--Some regulations at low flow by Lake Francis Dam, 0.8 mi (1.29 km) above station. Since July 2, 1957, small diversion above station for municipal water supply for city of Siloam Springs, Ark.

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

ILLINOIS RIVER NEAR WATTS, OKLAHOMA

CLASS 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34

YEAR	NUMBER OF DAYS IN CLASS																																	CFS-DAYS	
1956	12	15	24	8	10	5	24	79	27	16	37	23	17	15	19	13	11	4	2	3				1	1									63604.0	
1957	3	9	4	11	1	4	12	16	19	21	7	38	11	22	24	24	16	22	22	16	8	13	16	8	5	4	1	3	1		2	2	373138.0		
1958											2	30	51	57	43	30	32	30	25	19	15	11	6	5	4	2	1		1	1			282752.0		
1959											4	14	19	49	93	39	27	42	16	17	13	13	6	3	5	1	1	1	1	1			139755.0		
1960							1	1			2	13	19	18	37	65	63	25	34	26	16	15	10	7	3	3	3	1		1	2	1	271640.0		
1961											43	46	19	23	42	52	34	24	22	16	11	8	5	4	5	2	1	1	2	2	2		1	285807.0	
1962											1	7	29	29	35	30	58	64	29	28	14	9	3	5	2	1	1							219627.0	
1963							2	15	16	43	46	26	65	40	45	24	16	11	7	6	1	1	1											82678.0	
1964							2	40	47	58	60	44	21	24	20	14	12	7	5	4	4	2	1	1										55253.0	
1965							4	4		16	40	50	42	23	27	45	28	28	22	9	10	5	1	3	3	3		1	1					132112.0	
1966											38	52	47	46	36	26	18	27	23	15	8	9	6	6	1	1	3			1	1		1	137245.0	
1967											9	57	97	73	35	21	19	13	9	3	2	2	2	3	1									60175.0	
1968											4	10	1	8	17	45	37	38	26	25	35	31	26	14	10	14	5	5	10		3	2		285188.0	
1969											3	45	11	38	35	4	22	39	48	42	30	12	7	9	7	6	3	1		1	1	1		283993.0	
1970											6	26	23	45	42	33	22	46	35	26	23	12	2	8	7	3	2	3			1			217813.0	
1971											4	51	34	9	28	9	48	58	39	22	19	14	10	5	7	4	1	1	1			1		223701.0	
1972							2	3	38	47	69	57	43	24	14	11	17	9	7	6	5	3	1	3	2	2	3							146083.0	
1973											1	1	5	7	6	30	28	28	47	24	25	37	28	21	26	16	12	8	2	2	2	1		454684.0	
1974							1	1	1	1	1	1	1	1	33	29	34	56	58	39	25	26	15	10	10	8	4	3	2		3	2	1	1	450129.0

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	6940	100.0	9	71.00	408	6367	91.7	18	650.0	370	1462	21.1	27	6000	19	64	.9
1	10.00	15	6940	100.0	10	91.00	556	5959	85.9	19	840.0	320	1092	15.7	28	7600	13	45	.6
2	13.00	24	6925	99.8	11	120.00	499	5403	77.9	20	1100.0	212	772	11.1	29	9800	8	32	.4
3	16.00	28	6901	99.4	12	150.00	620	4904	70.7	21	1400.0	135	560	8.1	30	12000	12	24	.3
4	21.00	19	6873	99.0	13	190.00	587	4284	61.7	22	1700.0	123	425	6.1	31	16000	6	12	.1
5	27.00	17	6854	98.8	14	240.00	569	3697	53.3	23	2200.0	95	302	4.4	32	20000	4	6	.0
6	34.00	56	6837	98.5	15	310.00	571	3128	45.1	24	2900.0	63	207	3.0	33	26000		2	.0
7	44.00	115	6781	97.7	16	400.00	565	2557	36.8	25	3700.0	50	144	2.1	34	33000	2	2	.0
8	56.00	299	6666	96.1	17	510.00	530	1992	28.7	26	4700.0	30	94	1.4					



## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## ILLINOIS RIVER NEAR WATTS, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1957	10.00 1	10.00 1	11.10 1	12.10 1	13.20 1	16.20 1	21.30 1	39.60 1	60.70 1	284.00 4
1958	147.00 17	149.00 17	151.00 16	154.00 16	167.00 15	241.00 16	272.00 15	262.00 13	373.00 13	1170.00 17
1959	132.00 16	136.00 16	138.00 14	142.00 13	148.00 13	158.00 13	184.00 11	196.00 9	218.00 10	619.00 12
1960	67.00 9	70.30 9	71.90 7	73.40 7	88.60 8	130.00 11	276.00 16	287.00 15	435.00 15	557.00 10
1961	39.00 3	55.30 6	80.00 9	94.30 10	112.00 12	117.00 10	116.00 7	139.00 7	177.00 8	541.00 9
1962	214.00 18	221.00 18	236.00 18	278.00 18	420.00 18	444.00 18	533.00 18	660.00 18	654.00 17	1000.00 16
1963	92.00 14	104.00 13	132.00 13	149.00 14	163.00 14	200.00 15	217.00 14	226.00 12	332.00 11	422.00 6
1964	40.00 4	40.00 3	40.70 3	40.90 3	43.50 3	47.80 2	53.80 2	59.30 2	62.90 2	103.00 1
1965	30.00 2	31.00 2	32.70 2	36.10 2	39.70 2	62.30 3	105.00 6	148.00 8	162.00 6	250.00 3
1966	56.00 7	57.30 7	59.30 5	63.70 5	70.70 6	71.40 5	83.40 5	104.00 5	119.00 4	429.00 7
1967	58.00 8	61.30 8	65.30 6	66.30 6	64.40 5	77.20 6	79.80 4	84.60 3	97.30 3	220.00 2
1968	51.00 6	51.70 5	53.00 4	56.90 4	67.30 4	68.80 4	70.50 3	97.40 4	172.00 7	565.00 11
1969	128.00 15	135.00 15	143.00 15	154.00 15	169.00 16	185.00 14	192.00 12	199.00 11	405.00 14	892.00 15
1970	86.00 12	87.30 10	90.70 10	96.60 11	103.00 11	107.00 9	124.00 9	197.00 10	208.00 9	453.00 8
1971	88.00 13	88.00 11	91.30 12	98.40 12	102.00 10	133.00 12	201.00 13	283.00 14	696.00 18	827.00 13
1972	73.00 11	89.00 12	91.00 11	92.20 9	95.70 9	106.00 8	117.00 8	137.00 6	156.00 5	321.00 5
1973	46.00 5	50.30 4	75.00 8	77.50 8	81.90 7	92.30 7	156.00 10	290.00 16	347.00 12	867.00 14
1974	68.00 10	112.00 14	181.00 17	205.00 17	231.00 17	248.00 17	305.00 17	355.00 17	641.00 16	1270.00 18

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## ILLINOIS RIVER NEAR WATTS, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1956	4690.0 16	3180.0 15	1700.0 16	1080.0 16	781.0 16	570.0 16	439.0 17	362.0 17	290.0 17	174.0 17
1957	22800.0 4	14900.0 3	9350.0 3	6780.0 2	5010.0 1	3740.0 1	3170.0 1	2530.0 1	1880.0 2	1020.0 3
1958	13600.0 9	8850.0 6	4500.0 9	2630.0 11	2280.0 5	1460.0 9	1230.0 9	1190.0 7	1140.0 7	775.0 7
1959	7960.0 12	3750.0 14	2220.0 14	1340.0 15	1010.0 15	774.0 14	808.0 14	693.0 14	588.0 13	383.0 13
1960	23700.0 3	12600.0 4	6080.0 4	3090.0 9	2100.0 10	1370.0 10	1350.0 7	1160.0 8	953.0 8	742.0 8
1961	33400.0 2	18300.0 2	11400.0 1	6300.0 3	4430.0 2	2520.0 4	1930.0 4	1740.0 4	1330.0 4	783.0 4
1962	4870.0 15	3000.0 16	1870.0 15	1530.0 14	1250.0 13	980.0 12	865.0 12	769.0 12	826.0 11	602.0 10
1963	2890.0 17	1720.0 18	1230.0 17	1030.0 17	778.0 17	546.0 17	484.0 16	399.0 16	332.0 16	227.0 16
1964	2220.0 19	1580.0 19	923.0 19	532.0 19	349.0 19	317.0 19	273.0 19	252.0 19	217.0 19	151.0 19
1965	6950.0 13	4660.0 12	3870.0 12	2630.0 10	1600.0 11	1050.0 11	840.0 13	703.0 13	565.0 14	362.0 15
1966	14000.0 8	8530.0 7	4450.0 11	2370.0 12	1390.0 12	924.0 13	937.0 11	836.0 11	648.0 12	376.0 14
1967	2830.0 18	1910.0 17	1210.0 18	748.0 18	632.0 18	460.0 18	377.0 18	313.0 18	249.0 18	165.0 18
1968	9500.0 11	6590.0 11	4470.0 10	3140.0 8	2210.0 7	1700.0 6	1530.0 6	1400.0 6	1210.0 6	779.0 5
1969	19800.0 5	10300.0 5	5880.0 5	3300.0 6	2200.0 8	1820.0 5	1610.0 5	1500.0 5	1310.0 5	778.0 6
1970	14100.0 7	7500.0 10	4750.0 8	3450.0 5	2210.0 8	1630.0 7	1290.0 8	1090.0 9	889.0 10	597.0 11
1971	16200.0 6	8490.0 8	5050.0 7	3280.0 7	2250.0 6	1530.0 8	1180.0 10	1060.0 10	938.0 9	613.0 9
1972	6460.0 14	4430.0 13	3210.0 13	2010.0 13	1240.0 14	713.0 15	722.0 15	598.0 15	530.0 15	399.0 12
1973	12000.0 10	7640.0 9	5350.0 6	4200.0 4	3240.0 4	3060.0 2	2630.0 2	2380.0 2	1960.0 1	1250.0 1
1974	33600.0 1	21100.0 1	11400.0 2	7460.0 1	4370.0 3	2680.0 3	1950.0 3	1740.0 3	1510.0 3	1230.0 2

## STATISTICS OF ANNUAL DISCHARGE FOR WATER YEARS, 1956-74

Units of annual Discharge	Mean	Standard Deviation	Coefficient of Variation	Skew Coefficient	First Order Serial Correlation Coefficient
CFS	600	337	0.56	0.45	0.30
LOGS of CFS	2.699	0.288		-0.545	0.237

## ARKANSAS RIVER BASIN

07196000 FLINT CREEK NEAR KANSAS; OKLA.

LOCATION.--Lat 36°11'54", long 94°42'30", in SW 1/4 sec.24, T.20 N., R.24 E., Delaware County, near left bank on downstream side of pier of bridge on State Highway 33, 6.0 mi (9.7 km) southeast of Kansas, 6.0 mi (9.7 km) downstream from Sager Creek, and at mile 2.8 (4.5 km).

DRAINAGE AREA.--110 mi<sup>2</sup> (285 km<sup>2</sup>).

PERIOD OF RECORD.--August 1955 to September 1974.

AVERAGE DISCHARGE.--19 years (1956-74), 114 ft<sup>3</sup>/s (3.23 m<sup>3</sup>/s).

REMARKS.--Small diversion above station for irrigation.

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

## FLINT CREEK NEAR KANSAS, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS
1956			8	5	17	10	7	6	7	26	91	91	30	18	11	9	12	8	5	2		1	1				1								8177.4
1957	25	5	4	5				3	2	2	18	18	31	31	27	42	21	23	20	17	16	9	12	14	8	2	4	3	1	1	1			57472.1	
1958													60	69	78	38	34	23	19	19	12	5	4	2	1								35990.0		
1959											3	11	26	94	66	55	39	28	12	11	6	5	6	1			1	1					23899.0		
1960											21	21	14	59	85	45	27	35	16	12	10	9	3	2	4	1	1		1				54078.0		
1961													12	99	27	47	47	30	27	20	17	9	8	2	6	3	5	1	3		1	1		59839.0	
1962													17	23	36	70	96	58	25	21	11	5	2				1						37881.0		
1963												14	35	30	36	32	83	85	31	11	3	2	1	2									18068.0		
1964								18	4	11	30	27	105	38	45	40	19	10	6	5	5	1	2										12608.0		
1965										7	15	22	34	67	26	74	55	22	14	8	3	4	4	2	3		1	3	1					29973.0	
1966										5	13	67	62	37	37	43	44	29	8	7	6	2	1	2			2						19376.0		
1967										18	84	99	66	25	31	16	7	4	2	3	3	3	4										14014.0		
1968											5	9	37	41	27	53	39	35	28	28	23	12	12	7	5	2	1	2					60544.0		
1969											2	74	22	23	20	41	64	47	30	16	10	6	5	1	2			1		1			54878.0		
1970											7	23	15	56	52	54	35	37	32	24	9	8	2	2	2			1		1			42753.0		
1971												21	61	19	24	81	56	29	24	21	15	10	1	1			2						37006.0		
1972											15	30	21	77	77	67	19	21	11	8	5	4	6	2	2	1							22030.8		
1973												9	4	9	24	22	44	40	37	49	37	35	25	14	9	2	4			1			96196.0		
1974													4	29	22	64	81	51	41	29	18	10	5	2	3			1	1	1		1	2	108169.0	

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	6940	100.0	9	6.70	51	6814	98.2	18	100.0	512	1819	26.2	27	1500	14	39	.5
1	0.60	25	6940	100.0	10	9.00	217	6763	97.4	19	130.0	381	1307	18.8	28	2000	11	25	.3
2	0.80	13	6915	99.6	11	12.00	397	6546	94.3	20	180.0	312	926	13.3	29	2700	3	14	.2
3	1.10	9	6902	99.5	12	16.00	535	6149	88.6	21	250.0	203	614	8.8	30	3700	7	11	.1
4	1.50	22	6893	99.3	13	22.00	852	5614	80.9	22	330.0	158	411	5.9	31	5000	1	4	.0
5	2.00	10	6871	99.0	14	30.00	630	4762	68.6	23	450.0	98	253	3.6	32	6700	1	3	.0
6	2.70	7	6861	98.9	15	40.00	843	4132	59.5	24	610.0	58	155	2.2	33	9100		2	.0
7	3.60	27	6854	98.8	16	55.00	807	3289	47.4	25	820.0	29	97	1.4	34	12000	2	2	.0
8	4.90	13	6827	98.4	17	74.00	663	2482	35.8	26	1100.0	29	68	1.0					

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## FLINT CREEK NEAR KANSAS, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1957	0.60 1	0.60 1	0.66 1	0.68 1	0.71 1	0.99 1	1.50 1	4.03 1	8.99 1	33.90 3
1956	16.00 12	19.00 12	19.10 12	22.10 12	24.60 14	30.80 15	29.60 12	33.30 10	34.50 8	178.00 16
1959	22.00 15	22.00 14	22.00 14	22.10 13	23.50 13	29.20 14	30.40 13	34.30 12	34.40 7	83.50 7
1960	11.00 7	11.00 7	12.00 8	12.90 8	16.00 8	26.70 11	57.80 16	58.10 15	76.50 15	111.00 11
1961	17.00 11	17.30 11	17.70 11	18.80 11	20.00 10	21.60 8	22.60 7	26.30 5	30.30 5	98.80 10
1962	21.00 13	22.00 15	24.70 16	30.10 17	70.00 18	81.60 18	89.60 17	111.00 17	109.00 16	199.00 17
1963	24.00 17	24.70 17	26.30 17	28.40 16	37.40 16	48.40 16	54.70 15	54.50 14	66.90 14	81.60 6
1964	8.00 5	8.00 5	8.00 4	8.36 3	9.80 3	10.60 2	12.30 2	12.90 2	14.50 2	26.10 1
1965	4.00 2	4.00 2	4.00 2	4.00 2	6.17 2	17.50 7	27.90 9	31.30 9	34.90 9	48.20 4
1966	7.00 3	7.67 3	7.86 3	8.50 4	10.50 4	15.10 5	17.10 4	20.60 4	21.40 4	89.00 9
1967	7.00 4	7.67 4	8.57 5	11.30 6	12.00 6	13.10 3	14.00 3	15.00 3	17.00 3	31.50 2
1968	11.00 8	11.00 8	11.00 7	11.90 7	13.40 7	16.30 6	21.10 6	31.20 8	47.60 12	132.00 12
1969	22.00 16	22.00 16	22.00 15	23.60 15	25.10 15	28.80 13	29.30 10	34.00 11	65.60 13	164.00 15
1970	21.00 14	21.00 13	21.10 13	22.50 14	23.30 12	24.60 10	29.30 11	46.10 13	45.40 11	87.00 8
1971	13.00 9	13.00 9	13.90 9	15.30 9	17.80 9	27.80 12	48.80 14	84.00 16	123.00 17	157.00 14
1972	16.00 10	16.30 10	16.70 10	18.10 10	20.60 11	23.30 9	24.60 8	26.80 7	31.10 6	57.00 5
1973	9.80 6	9.93 6	10.30 6	10.90 5	11.90 5	13.50 4	17.80 5	26.60 6	42.60 10	156.00 13
1974	43.00 18	44.00 18	45.90 18	47.40 18	52.00 17	73.30 17	95.40 18	122.00 18	173.00 18	290.00 18

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## FLINT CREEK NEAR KANSAS, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1956	825.0 16	513.0 16	289.0 17	176.0 17	128.0 17	80.4 18	59.4 19	47.8 19	36.1 19	22.3 19
1957	4290.0 4	2240.0 5	1600.0 3	1260.0 2	952.0 2	607.0 2	522.0 1	416.0 2	295.0 3	157.0 5
1958	3960.0 7	1780.0 8	903.0 10	476.0 10	281.0 11	227.0 11	183.0 11	185.0 9	180.0 9	98.6 11
1959	1700.0 11	797.0 13	424.0 14	237.0 16	169.0 15	130.0 14	123.0 13	109.0 14	97.2 13	65.5 13
1960	4000.0 6	1800.0 7	989.0 9	668.0 9	503.0 6	363.0 6	299.0 7	239.0 7	182.0 7	148.0 7
1961	5840.0 2	2650.0 3	1870.0 2	1120.0 3	804.0 3	493.0 4	399.0 4	394.0 3	287.0 4	164.0 4
1962	1140.0 14	601.0 15	320.0 16	253.0 14	205.0 13	164.0 12	140.0 12	124.0 12	132.0 12	104.0 9
1963	409.0 18	331.0 19	226.0 18	152.0 18	111.0 18	83.6 17	77.8 17	73.7 17	66.9 16	49.5 16
1964	398.0 19	335.0 18	224.0 19	139.0 19	93.2 19	68.5 19	60.0 18	56.1 18	50.1 18	34.4 18
1965	2080.0 10	1620.0 10	1240.0 7	881.0 4	524.0 5	301.0 9	225.0 9	184.0 10	136.0 11	82.1 12
1966	1310.0 13	1030.0 11	596.0 11	335.0 13	201.0 14	130.0 15	116.0 14	109.0 13	87.6 15	53.1 15
1967	590.0 17	449.0 17	402.0 15	246.0 15	148.0 16	90.9 16	94.6 16	79.8 16	59.6 17	38.4 17
1968	2570.0 9	1870.0 6	1360.0 5	813.0 5	464.0 8	411.0 5	375.0 5	328.0 5	267.0 5	165.0 3
1969	4790.0 3	2690.0 2	1430.0 4	782.0 6	481.0 7	354.0 7	307.0 6	274.0 6	238.0 6	150.0 6
1970	4240.0 5	2520.0 4	1340.0 6	748.0 7	459.0 9	323.0 8	273.0 8	227.0 8	174.0 8	117.0 8
1971	1460.0 12	853.0 12	563.0 12	420.0 11	339.0 10	239.0 10	190.0 10	181.0 11	155.0 10	101.0 10
1972	847.0 15	697.0 14	490.0 13	340.0 12	213.0 12	131.0 13	101.0 15	84.9 15	91.3 14	60.2 14
1973	2880.0 8	1720.0 9	1000.0 8	703.0 8	651.0 4	600.0 3	517.0 2	478.0 1	400.0 1	264.0 2
1974	14500.0 1	7800.0 1	3830.0 1	2020.0 1	1100.0 1	634.0 1	479.0 3	393.0 4	312.0 2	296.0 1

## STATISTICS OF ANNUAL DISCHARGE FOR WATER YEARS, 1956-74

Units of annual Discharge	Mean	Standard Deviation	Coefficient of Variation	Skew Coefficient	First Order Serial Correlation Coefficient
CFS	114	74.6	0.65	1.08	0.38
LOGS of CFS	1.966	0.302		-0.286	0.199



YEAR		1		2		3		4		5		6		7		8		9		10		11		12		13		14		15		16		17		18		19		20		21		22		23		24		25		26		27		28		29		30		31		32		33		34		35		36		37		38		39		40		41		42		43		44		45		46		47		48		49		50		51		52		53		54		55		56		57		58		59		60		61		62		63		64		65		66		67		68		69		70		71		72		73		74		75		76		77		78		79		80		81		82		83		84		85		86		87		88		89		90		91		92		93		94		95		96		97		98		99		100		101		102		103		104		105		106		107		108		109		110		111		112		113		114		115		116		117		118		119		120		121		122		123		124		125		126		127		128		129		130		131		132		133		134		135		136		137		138		139		140		141		142		143		144		145		146		147		148		149		150		151		152		153		154		155		156		157		158		159		160		161		162		163		164		165		166		167		168		169		170		171		172		173		174		175		176		177		178		179		180		181		182		183		184		185		186		187		188		189		190		191		192		193		194		195		196		197		198		199		200		201		202		203		204		205		206		207		208		209		210		211		212		213		214		215		216		217		218		219		220		221		222		223		224		225		226		227		228		229		230		231		232		233		234		235		236		237		238		239		240		241		242		243		244		245		246		247		248		249		250		251		252		253		254		255		256		257		258		259		260		261		262		263		264		265		266		267		268		269		270		271		272		273		274		275		276		277		278		279		280		281		282		283		284		285		286		287		288		289		290		291		292		293		294		295		296		297		298		299		300		301		302		303		304		305		306		307		308		309		310		311		312		313		314		315		316		317		318		319		320		321		322		323		324		325		326		327		328		329		330		331		332		333		334		335		336		337		338		339		340		341		342		343		344		345		346		347		348		349		350		351		352		353		354		355		356		357		358		359		360		361		362		363		364		365		366		367		368		369		370		371		372		373		374		375		376		377		378		379		380		381		382		383		384		385		386		387		388		389		390		391		392		393		394		395		396		397		398		399		400		401		402		403		404		405		406		407		408		409		410		411		412		413		414		415		416		417		418		419		420		421		422		423		424		425		426		427		428		429		430		431		432		433		434		435		436		437		438		439		440		441		442		443		444		445		446		447		448		449		450		451		452		453		454		455		456		457		458		459		460		461		462		463		464		465		466		467		468		469		470		471		472		473		474		475		476		477		478		479		480		481		482		483		484		485		486		487		488		489		490		491		492		493		494		495		496		497		498		499		500		501		502		503		504		505		506		507		508		509		510		511		512		513		514		515		516		517		518		519		520		521		522		523		524		525		526		527		528		529		530		531		532		533		534		535		536		537		538		539		540		541		542		543		544		545		546		547		548		549		550		551		552		553		554		555		556		557		558		559		560		561		562		563		564		565		566		567		568		569		570		571		572		573		574		575		576		577		578		579		580		581		582		583		584		585		586		587		588		589		590		591		592		593		594		595		596		597		598		599		600		601		602		603		604		605		606		607		608		609		610		611		612		613		614		615		616		617		618		619		620		621		622		623		624		625		626		627		628		629		630		631		632		633		634		635		636		637		638		639		640		641		642		643		644		645		646		647		648		649		650		651		652		653		654		655		656		657		658		659		660		661		662		663		664		665		666		667		668		669		670		671		672		673		674		675		676		677		678		679		680		681		682		683		684		685		686		687		688		689		690		691		692		693		694		695		696		697		698		699		700		701		702		703		704		705		706		707		708		709		710		711		712		713		714		715		716		717		718		719		720		721		722		723		724		725		726		727		728		729		730		731		732		733		734		735		736		737		738		739		740		741		742		743		744		745		746		747		748		749		750		751		752		753		754		755		756		757		758		759		760		761		762		763		764		765		766		767		768		769		770		771		772		773		774		775		776		777		778		779		780		781		782		783		784		785		786		787		788		789		790		791		792		793		794		795		796		797		798		799		800		801		802		803		804		805		806		807		808		809		810		811		812		813		814		815		816		817		818		819		820		821		822		823		824		825		826		827		828		829		830		831		832		833		834		835		836		837		838		839		840		841		842		843		844		845		846		847		848		849		850		851		852		853		854		855		856		857		858		859		860		861		862		863		864		865		866		867		868		869		870		871		872		873		874		875		876		877		878		879		880		881		882		883		884		885		886		887		888		889		890		891		892		893		894		895		896		897		898		899		900		901		902		903		904		905		906		907		908		909		910		911		912		913		914		915		916		917		918		919		920		921		922		923		924		925		926		927		928		929		930		931		932		933		934		935		936		937		938		939		940		941		942		943		944		945		946		947		948		949		950		951		952		953		954		955		956		957		958		959		960		961		962		963		964		965		966		967		968		969		970		971		972		973		974		975		976		977		978		979		980		981		982		983		984		985		986		987		988		989		990		991		992		993		994		995		996		997		998		999		1000		1001		1002		1003		1004		1005		1006		1007		1008		1009		1010		1011		1012		1013		1014		1015		1016		1017	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## MONTHLY DURATION TABLE

ILLINOIS RIVER NEAR TAHLEQUAH, OKLAHOMA

PERIOD 1935-1974

CLASS LIMIT	TOTAL PERCENT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
0.00	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0.10	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0.15	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.6	100.0	100.0
0.22	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.5	100.0	100.0
0.33	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.4	100.0	100.0
0.50	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.3	100.0	100.0
0.74	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.2	100.0	100.0
1.10	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	98.9	100.0	100.0
1.70	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.3	98.8	100.0	100.0
2.50	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	98.9	98.8	100.0	100.0
3.80	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.8	97.7	98.6	100.0	100.0
5.70	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.1	96.1	98.3	100.0	100.0
8.50	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	98.2	95.1	98.2	100.0	100.0
13.00	99.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.4	96.4	97.8	100.0	100.0
19.00	98.7	100.0	100.0	100.0	100.0	100.0	100.0	98.5	94.2	94.4	97.6	100.0	100.0
29.00	98.5	100.0	100.0	100.0	100.0	100.0	100.0	97.6	93.4	94.2	97.4	100.0	100.0
43.00	97.9	100.0	100.0	100.0	99.6	100.0	99.7	95.8	92.2	91.8	95.6	99.7	100.0
65.00	96.4	100.0	100.0	99.8	99.1	100.0	98.5	93.9	90.5	85.9	91.4	97.9	100.0
98.00	91.0	93.3	94.1	97.8	99.0	99.9	96.4	90.7	80.9	77.4	77.3	88.6	92.9
150.00	79.6	84.3	89.7	94.4	96.6	99.1	92.0	76.5	58.4	53.2	63.1	73.2	75.4
220.00	67.4	72.0	83.0	89.0	92.6	95.1	81.5	58.7	39.8	36.9	46.6	55.0	59.6
330.00	54.1	58.7	67.0	79.4	84.4	85.8	69.8	40.5	21.9	26.1	32.5	41.0	43.3
500.00	41.5	42.3	53.2	63.8	73.1	72.1	53.9	24.6	11.3	16.0	22.3	32.6	34.0
740.00	29.5	29.5	34.8	47.3	57.4	58.5	38.3	14.8	6.7	7.8	13.9	23.8	22.3
1100.00	19.1	16.4	22.3	31.7	38.1	43.3	23.1	8.5	4.5	5.0	8.0	16.3	12.8
1700.00	11.1	7.8	12.7	19.6	23.5	25.8	11.4	5.1	2.7	2.6	4.1	10.1	7.9
2500.00	6.6	4.6	7.9	11.3	14.4	15.3	6.7	3.1	1.7	1.8	2.9	5.8	4.5
3800.00	3.6	2.1	4.3	6.5	8.6	8.3	3.4	1.5	1.1	0.9	1.6	3.1	2.4
5700.00	1.9	1.4	2.5	3.4	3.7	4.5	1.4	0.5	0.7	0.3	0.9	1.9	1.2
8500.00	1.0	0.7	1.5	1.5	1.5	2.7	0.8	0.4	0.6	0.0	0.5	1.0	0.7
13000.00	0.5	0.2	0.9	0.7	0.8	1.8	0.3	0.2	0.2	0.0	0.2	0.4	0.5
19000.00	0.2	0.1	0.5	0.1	0.4	0.7	0.3	0.2	0.1	0.0	0.1	0.3	0.1
29000.00	0.1	0.0	0.2	0.1	0.3	0.6	0.1	0.0	0.1	0.0	0.0	0.2	0.0
43000.00	0.0	0.0	0.0	0.0	0.2	0.2	0.1	0.0	0.0	0.0	0.0	0.1	0.0
65000.00	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0

## STATISTICS OF ANNUAL DISCHARGE FOR WATER YEARS, 1936-74

Units of annual Discharge	Mean	Standard Deviation	Coefficient of Variation	Skew Coefficient	First Order Serial Correlation Coefficient
CFS	899	482	0.54	0.54	0.34
LOGS of CFS	2.881	0.273		-0.623	0.318

ARKANSAS RIVER BASIN

171

07197000 BARON FORK AT ELDON, OKLA.

LOCATION.--Lat 35°55'16", long 94°50'18", in SE 1/4 sec.27, T.17 N., R.23 E., Cherokee County, on downstream side of left pier of bridge on State Highway 51, 0.4 mi (0.6 km) southeast of Eldon, 6.0 mi (9.7 km) downstream from Tyner Creek, and at mile 8.8 (14.2 km).

DRAINAGE AREA.--307 mi<sup>2</sup> (795 km<sup>2</sup>).

PERIOD OF RECORD.--October 1948 to September 1974.

AVERAGE DISCHARGE.--26 years (1949-74), 294 ft<sup>3</sup>/s (8.33 m<sup>3</sup>/s).

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

BARRON FORK AT ELDON, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS	
1949																																				171209.0
1950																																				165399.0
1951																																				91011.0
1952																																				74997.0
1953																																				67997.8
1954																																				32849.2
1955																																				85930.0
1956																																				37983.6
1957																																				227708.6
1958																																				134539.0
1959																																				85719.0
1960																																				132948.0
1961																																				118641.0
1962																																				103391.0
1963																																				20319.1
1964																																				30363.5
1965																																				71832.6
1966																																				74856.0
1967																																				26061.0
1968																																				136589.5
1969																																				129279.0
1970																																				129537.0
1971																																				124649.0
1972																																				84044.0
1973																																				233382.0
1974																																				202275.0

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	9496	100.0	9	17.00	401	8597	90.5	18	200.0	752	3123	32.9	27	2500	40	137	1.4
1	1.80	35	9496	100.0	10	22.00	428	8196	86.3	19	270.0	567	2371	25.0	28	3200	42	97	1.0
2	2.40	64	9461	99.6	11	29.00	519	7768	81.8	20	350.0	464	1804	19.0	29	4300	23	55	.5
3	3.10	32	9397	99.0	12	38.00	707	7249	76.3	21	460.0	362	1340	14.1	30	5600	13	32	.3
4	4.10	22	9365	98.6	13	50.00	726	6542	68.9	22	610.0	270	958	10.1	31	7400	8	19	.2
5	5.50	76	9343	98.4	14	66.00	719	5816	61.2	23	810.0	223	688	7.2	32	9800	4	11	.1
6	7.20	101	9267	97.6	15	88.00	708	5097	53.7	24	1100.0	118	465	4.9	33	13000	5	7	.0
7	9.50	199	9166	96.5	16	120.00	516	4389	46.2	25	1400.0	127	347	3.7	34	17000	2	2	.0
8	13.00	370	8967	94.4	17	150.00	750	3873	40.8	26	1900.0	83	220	2.3					

## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## BARRON FORK AT ELDON, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1950	37.00 22	37.70 21	37.40 21	40.90 21	51.60 22	57.30 21	69.40 20	75.10 19	141.00 19	421.00 19
1951	35.00 20	35.30 20	36.30 20	36.60 20	37.80 18	40.60 18	43.20 16	56.20 14	78.30 14	447.00 21
1952	19.00 15	19.70 15	20.40 15	22.90 14	25.90 14	28.50 13	34.50 12	48.80 12	85.60 16	185.00 10
1953	7.80 6	8.00 6	8.40 6	9.19 7	10.30 6	11.00 4	12.90 4	17.90 6	24.10 7	164.00 8
1954	7.80 7	8.07 7	8.60 7	8.80 6	9.61 5	12.60 6	14.10 5	15.90 4	21.10 5	142.00 5
1955	2.20 2	2.40 2	2.46 2	2.71 2	2.81 2	2.99 2	3.75 2	5.20 1	12.30 1	194.00 11
1956	6.40 5	6.40 5	7.07 5	8.19 5	11.20 7	16.00 8	16.60 8	19.70 7	21.40 6	135.00 3
1957	1.40 1	1.40 1	1.80 1	1.89 1	1.95 1	2.31 1	3.72 1	7.85 2	14.80 3	148.00 6
1958	36.00 21	36.30 22	40.30 22	42.20 22	57.90 23	98.60 24	120.00 22	111.00 20	162.00 20	702.00 25
1959	40.00 23	40.30 23	41.40 23	43.60 23	45.60 21	57.40 22	67.50 19	71.30 17	76.60 13	293.00 16
1960	21.00 16	21.70 16	22.00 16	23.40 16	32.10 17	47.20 20	154.00 24	147.00 21	251.00 22	334.00 17
1961	31.00 19	31.70 19	33.00 19	36.10 19	38.20 19	39.50 17	40.60 15	50.60 13	94.50 17	273.00 14
1962	54.00 25	57.30 25	67.00 25	80.90 25	109.00 25	168.00 25	178.00 25	236.00 25	288.00 23	427.00 20
1963	27.00 18	27.70 18	28.40 18	30.90 18	36.50 20	41.30 19	52.20 18	57.30 15	60.90 10	138.00 4
1964	6.00 4	6.00 4	6.00 4	6.00 3	6.18 3	7.33 3	9.32 3	10.70 3	13.40 2	37.80 1
1965	4.40 3	4.40 3	5.09 3	6.12 4	7.40 4	22.60 11	37.70 13	70.90 16	81.50 15	158.00 7
1966	8.50 8	8.90 8	9.27 8	9.61 8	12.30 9	16.70 9	18.80 9	22.90 8	25.40 8	213.00 13
1967	12.00 10	12.00 10	12.10 10	12.50 10	13.20 10	14.40 7	15.80 7	17.40 5	20.90 4	112.00 2
1968	9.50 9	9.40 9	9.56 9	9.75 9	11.90 8	12.20 5	14.70 6	24.50 9	56.50 9	287.00 15
1969	18.00 14	18.70 13	20.10 13	22.90 15	26.20 15	34.30 15	40.10 14	47.40 11	118.00 18	396.00 18
1970	13.00 11	13.00 11	14.00 11	15.70 11	17.00 11	20.80 10	30.80 10	72.70 18	74.00 12	206.00 12
1971	16.00 12	16.30 12	16.70 12	18.10 12	24.60 13	37.60 16	87.50 21	164.00 23	503.00 25	524.00 23
1972	18.00 13	19.00 14	20.40 14	22.50 13	23.40 12	27.80 12	34.40 11	47.30 10	61.30 11	168.00 9
1973	23.00 17	23.70 17	24.90 17	27.20 17	31.10 16	33.70 14	48.10 17	162.00 22	185.00 21	466.00 22
1974	52.00 24	53.70 24	55.70 24	60.80 24	64.20 24	81.90 23	130.00 23	236.00 24	357.00 24	632.00 24

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## BARRON FORK AT ELDON, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1949	5940.0 15	4190.0 13	2820.0 9	1790.0 10	1520.0 8	1060.0 5	885.0 6	838.0 4	823.0 3	469.0 4
1950	22500.0 1	15200.0 1	8020.0 1	4140.0 2	2240.0 2	1330.0 3	979.0 3	906.0 3	771.0 4	453.0 5
1951	13800.0 4	7560.0 5	4600.0 5	2640.0 5	1610.0 5	940.0 10	729.0 10	586.0 12	450.0 13	249.0 14
1952	4000.0 20	2760.0 20	1720.0 20	1050.0 21	658.0 22	600.0 18	532.0 18	455.0 14	348.0 19	205.0 18
1953	3920.0 21	3290.0 17	2070.0 18	1180.0 20	925.0 15	749.0 13	654.0 12	506.0 15	349.0 18	186.0 21
1954	9730.0 8	4900.0 9	2740.0 12	1470.0 14	789.0 19	425.0 21	299.0 23	235.0 23	168.0 23	90.0 23
1955	5370.0 16	3950.0 16	2310.0 16	1290.0 18	847.0 16	652.0 17	591.0 16	572.0 13	442.0 14	235.0 15
1956	3050.0 22	1700.0 22	961.0 23	630.0 23	577.0 23	414.0 22	314.0 22	253.0 22	190.0 22	104.0 22
1957	16100.0 2	9400.0 3	5600.0 2	4550.0 1	3630.0 1	2490.0 1	2130.0 1	1660.0 1	1180.0 1	624.0 2
1958	7970.0 11	5270.0 7	2760.0 10	1500.0 13	1050.0 12	736.0 14	641.0 14	620.0 11	572.0 8	369.0 7
1959	4700.0 19	2390.0 21	1710.0 21	1330.0 16	833.0 17	698.0 15	623.0 15	503.0 16	406.0 16	235.0 16
1960	9990.0 7	4650.0 11	2540.0 13	1600.0 11	1230.0 11	800.0 12	647.0 13	558.0 14	456.0 12	363.0 8
1961	12500.0 6	8330.0 4	5120.0 4	2740.0 4	1550.0 7	963.0 9	773.0 8	674.0 8	524.0 10	325.0 12
1962	2300.0 24	1360.0 25	1000.0 22	848.0 22	708.0 21	569.0 19	447.0 21	412.0 20	437.0 15	283.0 13
1963	329.0 26	281.0 26	210.0 26	150.0 26	100.0 26	86.5 26	83.3 26	73.7 26	72.1 26	55.7 26
1964	2020.0 25	1410.0 23	835.0 24	473.0 25	280.0 25	225.0 25	190.0 25	161.0 25	135.0 24	83.0 24
1965	4780.0 18	2990.0 19	2140.0 17	1560.0 12	951.0 14	665.0 16	531.0 19	461.0 18	345.0 20	197.0 20
1966	8200.0 10	4760.0 10	2500.0 14	1330.0 17	825.0 18	513.0 20	574.0 17	499.0 17	385.0 17	205.0 19
1967	2340.0 23	1360.0 24	826.0 25	507.0 24	407.0 24	290.0 24	215.0 24	172.0 24	126.0 25	71.4 25
1968	6210.0 14	4260.0 12	2760.0 11	1980.0 9	1460.0 10	973.0 7	899.0 5	805.0 6	653.0 6	373.0 6
1969	7920.0 12	4070.0 15	2450.0 15	1430.0 15	954.0 13	830.0 11	736.0 9	687.0 7	611.0 7	354.0 10
1970	8480.0 9	4180.0 14	2840.0 8	2080.0 8	1560.0 6	1030.0 6	796.0 7	650.0 9	503.0 11	355.0 9
1971	14500.0 3	8620.0 6	3690.0 6	2180.0 7	1470.0 9	965.0 8	698.0 11	628.0 10	543.0 9	342.0 11
1972	5300.0 17	3200.0 18	1990.0 19	1220.0 19	739.0 20	414.0 23	461.0 20	377.0 21	305.0 21	230.0 17
1973	7070.0 13	4900.0 8	2920.0 7	2210.0 6	1780.0 4	1690.0 2	1370.0 2	1250.0 2	1010.0 2	639.0 1
1974	13700.0 5	9460.0 2	5180.0 3	3480.0 3	2100.0 3	1290.0 4	971.0 4	820.0 5	711.0 5	554.0 3

## STATISTICS OF ANNUAL DISCHARGE FOR WATER YEARS, 1949-74

Units of annual Discharge	Mean	Standard Deviation	Coefficient of Variation	Skew Coefficient	First Order Serial Correlation Coefficient
CFS	294	162	0.55	0.53	0.32
LOGS of CFS	2.390	0.289		-0.741	0.283

## ARKANSAS RIVER BASIN

173

07198000 ILLINOIS RIVER NEAR GORE, OKLA.

LOCATION.--Lat 35°34'23", long 95°04'07", in NE 1/4 SW 1/4 sec.27, T.13 N., R.21 E., Sequoyah County, on right bank 4.3 mi (6.9 km) downstream from Tenkiller Ferry Dam, 4.5 mi (7.2 km) northeast of Gore, and at mile 8.5 (13.7 km).

DRAINAGE AREA.--1,626 mi<sup>2</sup> (4,211 km<sup>2</sup>).

PERIOD OF RECORD.--March 1924 to April 1926, April 1939 to September 1974. Statistical summaries for this station are divided into unregulated and regulated periods.

AVERAGE DISCHARGE.--13 years (1939-52), 1,897 ft<sup>3</sup>/s (53.7 m<sup>3</sup>/s); 22 years (1953-74), 1,344 ft<sup>3</sup>/s (38.1 m<sup>3</sup>/s).

REMARKS.--Except for 16 mi<sup>2</sup> (41 km<sup>2</sup>) intervening area, flow completely regulated since July 1952 by Tenkiller Ferry Lake in Oklahoma.

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

ILLINOIS RIVER NEAR GORE, OKLAHOMA																																				
CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS	
1940	8	1	15	11	10	56	103	27	31	20	24	14	9	7	6	4	9	3	2	4	1														184385.0	
1941				4	24	42	49	20	26	26	21	16	18	18	28	13	14	14	11	9	3	1	2	2	1			1	1	1					493339.0	
1942				1	2			10	31	13	16	34	44	47	39	25	25	31	13	9	7	3	3	6		2		3	1						782647.0	
1943				3	22	14	13	18	32	27	22	22	23	26	20	25	13	23	10	10	11	11	2	3	2	6	4				1	1	1		993898.0	
1944					10	54	49	43	30	17	17	14	34	15	20	12	13	8	6	6	4	5	4	2	1			2							551570.0	
1945						32	39	57	29	26	14	6	10	10	15	18	15	14	18	7	13	12	6	9	3	4	3	2	1			1	1	1	1333877.0	
1946						19	26	5	30	19	25	31	26	38	36	26	13	17	14	11	13	6	2	6	2										628837.0	
1947						7	36	21	19	21	42	26	19	19	22	21	22	15	19	10	14	9	5	8	3		4	1	2						701393.0	
1948						27	11	14	33	41	38	23	25	31	21	21	15	16	12	11	7	5	9	1	2	1			1	1					648507.0	
1949							68	24	7	28	18	18	30	20	32	21	25	16	18	10	9	9	6	4	2										804433.0	
1950										34	71	21	32	27	35	36	39	17	19	13	5	5	1	2	3	2					1			1	1	934385.0
1951						3	3	2	61	56	34	33	27	8	35	38	19	9	10	8	3	6	1	1	1			2	4	1					527931.0	
1952	54	22	11	1	4	4	2	2	13	12	5	14	26	42	49	30	20	13	11	14	7	3	4	1	2										428504.0	

CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT
0	0.00	54	4749	100.0	9	310.00	396	3677	77.4	18	2500.0	214	840	17.7	27	21000	14	41	.8					
1	48.00	30	4695	98.9	10	390.00	327	3281	69.1	19	3200.0	151	626	13.2	28	26000	13	27	.5					
2	61.00	12	4665	98.2	11	490.00	361	2954	62.2	20	4000.0	133	475	10.0	29	33000	6	14	.2					
3	77.00	16	4653	98.0	12	630.00	262	2593	54.6	21	5100.0	88	342	7.2	30	42000	2	8	.1					
4	97.00	22	4637	97.6	13	790.00	284	2311	48.7	22	6400.0	67	254	5.3	31	53000		6	.1					
5	120.00	71	4615	97.2	14	1000.00	374	2027	42.7	23	8100.0	56	187	3.9	32	66000	3	6	.1					
6	150.00	211	4544	95.7	15	1300.00	319	1653	34.8	24	10000.0	42	131	2.8	33	84000	2	3	.0					
7	190.00	313	4333	91.2	16	1600.00	278	1334	28.1	25	13000.0	25	89	1.9	34	110000	1	1	.0					
8	250.00	343	4020	84.6	17	2000.00	216	1056	22.2	26	16000.0	23	64	1.3										

## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

ILLINOIS RIVER NEAR GORE, OKLAHOMA																			
YEAR	1		3		7		14		30		60		90		120		183		ANNUAL
1940	42.00	1	43.00	1	44.00	1	44.50	1	54.40	1	72.90	1	96.00	1	138.00	1	160.00	1	465.00
1941	98.00	2	100.00	2	109.00	2	114.00	2	158.00	3	216.00	5	354.00	10	424.00	8	425.00	5	1140.00
1942	107.00	3	114.00	3	133.00	4	155.00	5	189.00	6	207.00	4	204.00	2	319.00	6	759.00	7	1730.00
1943	258.00	9	266.00	11	283.00	11	314.00	12	331.00	12	434.00	11	444.00	11	477.00	9	1220.00	12	2260.00
1944	116.00	4	117.00	4	121.00	3	132.00	3	153.00	2	177.00	2	216.00	4	222.00	2	263.00	2	2190.00
1945	184.00	8	185.00	8	197.00	8	214.00	8	239.00	7	291.00	8	305.00	6	305.00	4	392.00	4	2270.00
1946	308.00	13	313.00	13	320.00	13	334.00	13	374.00	13	492.00	12	731.00	13	1140.00	13	1020.00	10	3080.00
1947	155.00	7	156.00	7	158.00	6	161.00	6	174.00	5	180.00	3	211.00	3	315.00	5	1190.00	11	1600.00
1948	126.00	6	129.00	6	136.00	5	149.00	4	170.00	4	240.00	6	225.00	5	249.00	3	334.00	3	1620.00
1949	262.00	10	265.00	9	266.00	9	270.00	10	283.00	9	323.00	10	342.00	8	513.00	11	1410.00	13	2050.00
1950	268.00	12	280.00	12	283.00	12	285.00	11	321.00	11	501.00	13	532.00	12	564.00	12	870.00	9	2140.00
1951	265.00	11	265.00	10	267.00	10	269.00	9	274.00	8	291.00	7	323.00	7	380.00	7	578.00	6	2600.00
1952	119.00	5	124.00	5	173.00	7	207.00	7	294.00	10	296.00	9	347.00	9	504.00	10	797.00	8	1240.00

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

ILLINOIS RIVER NEAR GORE, OKLAHOMA																				
YEAR	1	3	7	15	30	60	90	120	183	ANNUAL										
1940	8530.0	13	4790.0	13	3480.0	13	2250.0	13	2180.0	13	1350.0	13	1070.0	13	884.0	13	800.0	13	504.0	13
1941	40600.0	4	30300.0	4	18500.0	5	10100.0	7	5630.0	10	3180.0	11	2830.0	11	3050.0	7	2400.0	11	1350.0	11
1942	36400.0	5	30200.0	5	16700.0	8	9800.0	9	6920.0	6	4550.0	8	3650.0	7	3010.0	8	2760.0	6	2140.0	5
1943	106000.0	2	73300.0	3	38200.0	3	23100.0	2	13500.0	2	7760.0	2	5860.0	2	4600.0	3	3780.0	4	2720.0	2
1944	28000.0	8	23700.0	9	16700.0	9	10100.0	8	6420.0	7	5230.0	4	4170.0	5	3700.0	5	2650.0	9	1510.0	9
1945	106000.0	3	74700.0	2	41600.0	2	22000.0	3	17500.0	1	14100.0	1	10800.0	1	9540.0	1	6740.0	1	3650.0	1
1946	14500.0	11	12900.0	11	10300.0	11	7430.0	11	5140.0	11	3680.0	10	3000.0	10	2970.0	9	2740.0	7	1720.0	8
1947	29100.0	7	25600.0	8	18000.0	7	10200.0	6	6120.0	8	4760.0	7	3560.0	8	2830.0	10	2680.0	8	1920.0	6
1948	35500.0	6	27000.0	6	18500.0	6	10700.0	5	6110.0	9	4380.0	9	3300.0	9	2810.0	11	2970.0	5	1770.0	7
1949	20500.0	10	16600.0	10	12000.0	10	8430.0	10	7060.0	5	5040.0	5	4210.0	4	3870.0	4	3810.0	3	2200.0	4
1950	147000.0	1	88500.0	1	45500.0	1	23300.0	1	12900.0	3	7590.0	3	5610.0	3	5010.0	2	4150.0	2	2560.0	3
1951	26700.0	9	25800.0	7	22300.0	4	13300.0	4	8330.0	4	4870.0	6	3720.0	6	3070.0	6	2480.0	10	1450.0	10
1952	10000.0	12	9320.0	12	7140.0	12	5130.0	12	3350.0	12	3120.0	12	2600.0	12	2320.0	12	1940.0	12	1170.0	12

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

ILLINOIS RIVER NEAR GORE, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34		
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS		
1953						2	9	2	12	14	70	75	30	19	13	93	18	4		3		1														22865.4	
1954		1	1	1	2	1	1	4	6	19	15	11	14	19	12	12	14		5	12	17	29	70	22	23	45	9									294222.2	
1955						1	1		1		1		2	13	33	69	27	16	20	19	3	9	18	24	55	12	11	16	10	4	1					217821.0	
1956										1	1	6	16	25	31	27	42	21	32	45	18	23	15	37	19	7										137769.0	
1957									1	5	2	8	4	21	16	18	18	30	9	17	18	35	12	24	16	16	13	11	13	4	11	10	33			962269.0	
1958											3	2	6	8	10	9	11	4	13	13	4	18	38	40	70	39	24	27	8	6	5	6	1			656420.0	
1959	1				1					1	6	8	19	9	15	11	8	12	12	13	23	32	42	32	57	35	19	9							377325.4		
1960									1	1	1	1	7	4	6	11	6	7	3	5	3	17	51	40	68	60	24	24	7	1	5	11	1			704855.0	
1961										1		2	4	6	6	9	17	8	20	12	17	23	21	37	33	33	26	19	32	12	6	5	16			699246.0	
1962											1	1	8	8	7	11	6	15	9	14	10	19	38	31	78	45	26	38								527907.0	
1963						1	2	1	2	1	4	21	32	29	33	24	12	12	15	19	17	31	51	29	21	8										192900.0	
1964									1	3	1	6	20	31	37	50	24	28	44	47	50	22	2														102534.0
1965		9	5	6	4	3	3	3	1	2	4	4	3	6	8	15	13	19	12	25	28	25	44	43	45	13	3	9	2	3	2	3				357800.7	
1966									1	2		7	14	16	16	26	18	20	12	17	17	25	23	38	29	28	36	10	3	4	3					318087.0	
1967									5	2		2	11	25	22	58	49	51	47	36	21	17	17	2												104757.0	
1968												2	4	10	17	19	26	16	18	12	19	27	19	32	40	24	51	4	16	6	4					667768.0	
1969									2		1	1	3	9	4	13	13	8	11	11	13	36	34	39	27	25	32	59	3	8	6	7				707439.0	
1970									1	1		1	4		4	8	13	5	15	14	27	21	49	54	49	57	12	6	2	1	13					515589.0	
1971										1						3	6	5	23	12	12	20	17	21	29	27	48	71	20	34	4	2	10			616620.0	
1972																3	5	22	28	24	23	19	20	16	34	37	63	60	7	5					389389.0		
1973														1	2	5	11	13	12	7	10	9	15	16	32	31	30	19	79	14	12	9	38			1136646.0	
1974														1	1	3	3	1	8	4	7	8	8	21	21	61	71	19	83	1	4	4	35	1		1084796.0	

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	8035	100.0	9	18.00	37	7959	99.1	18	210.0	370	5854	72.9	27	2400	290	1147	14.2
1	2.10	1	8035	100.0	10	24.00	93	7922	98.6	19	270.0	337	5484	68.3	28	3100	474	857	10.6
2	2.80	9	8034	100.0	11	31.00	134	7829	97.4	20	360.0	361	5147	64.1	29	4100	75	383	4.7
3	3.60	6	8025	99.9	12	41.00	147	7695	95.8	21	470.0	387	4786	59.6	30	5300	66	308	3.8
4	4.70	7	8019	99.8	13	54.00	231	7548	93.9	22	610.0	464	4399	54.7	31	7000	76	242	3.0
5	6.20	8	8012	99.7	14	70.00	316	7317	91.1	23	800.0	742	3935	49.0	32	9100	130	166	2.0
6	8.10	16	8004	99.6	15	92.00	396	7001	87.1	24	1100.0	585	3193	39.7	33	12000	36	36	.4
7	11.00	4	7988	99.4	16	120.00	409	6605	82.2	25	1400.0	768	2608	32.5	34	16000			
8	14.00	20	7979	99.3	17	160.00	342	6196	77.1	26	1800.0	693	1840	22.9					

## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## ILLINOIS RIVER NEAR GORE, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1954	27.00 17	31.00 6	33.60 3	34.60 3	36.00 2	41.40 1	59.40 1	71.30 1	87.40 1	480.00 4
1955	4.60 3	5.80 2	9.46 2	16.50 2	83.00 5	85.80 4	86.60 2	88.50 2	131.00 3	497.00 5
1956	13.00 5	65.30 15	69.70 9	87.60 7	130.00 8	298.00 9	416.00 10	456.00 10	521.00 9	739.00 6
1957	20.00 12	43.70 10	60.90 7	76.60 6	90.30 6	141.00 5	169.00 5	176.00 5	186.00 4	341.00 2
1958	25.00 16	53.00 12	128.00 14	160.00 12	552.00 18	791.00 19	957.00 19	1000.00 18	1080.00 17	3110.00 20
1959	38.00 18	45.00 11	102.00 13	182.00 13	359.00 15	455.00 13	619.00 15	676.00 14	796.00 14	1490.00 14
1960	2.10 1	15.50 4	74.30 11	152.00 11	228.00 10	687.00 17	832.00 17	943.00 17	1260.00 18	1550.00 15
1961	16.00 6	35.00 7	192.00 16	222.00 15	302.00 12	343.00 11	418.00 11	518.00 11	667.00 12	1380.00 13
1962	18.00 9	82.70 16	358.00 21	603.00 20	806.00 21	1150.00 21	1390.00 21	1580.00 21	1690.00 19	2400.00 19
1963	10.00 4	11.30 3	56.00 5	290.00 17	309.00 13	420.00 12	613.00 14	718.00 15	762.00 13	1030.00 10
1964	22.00 15	42.30 9	60.00 6	67.40 5	75.30 4	77.30 3	87.90 3	89.80 3	112.00 2	206.00 1
1965	2.90 2	3.20 1	3.47 1	5.01 1	7.65 1	269.00 8	297.00 8	329.00 8	342.00 8	463.00 3
1966	21.00 14	40.00 8	50.70 4	53.90 4	64.70 3	77.20 2	111.00 4	173.00 4	305.00 7	963.00 9
1967	16.00 7	22.70 5	65.90 8	94.60 9	119.00 7	149.00 6	217.00 7	257.00 7	299.00 6	748.00 7
1968	18.00 10	55.30 14	75.70 12	90.70 8	132.00 9	172.00 7	188.00 6	204.00 6	272.00 5	1090.00 11
1969	20.00 13	54.00 13	71.60 10	114.00 10	320.00 14	517.00 16	597.00 13	612.00 12	858.00 15	2110.00 17
1970	18.00 11	133.00 18	287.00 19	323.00 18	405.00 16	485.00 14	574.00 12	620.00 13	664.00 11	1200.00 12
1971	17.00 8	160.00 20	212.00 18	438.00 19	678.00 20	755.00 18	947.00 18	1040.00 19	1760.00 20	2150.00 18
1972	84.00 21	148.00 19	196.00 17	227.00 16	277.00 11	337.00 10	381.00 9	445.00 9	591.00 10	938.00 8
1973	59.00 19	127.00 17	170.00 15	186.00 14	434.00 17	510.00 15	683.00 16	895.00 16	945.00 16	1650.00 16
1974	59.00 20	174.00 21	306.00 20	624.00 21	642.00 19	875.00 20	980.00 20	1130.00 20	2150.00-21	3700.00 21

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## ILLINOIS RIVER NEAR GORE, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1953	517.0 22	325.0 22	222.0 22	167.0 22	139.0 22	124.0 22	118.0 22	114.0 22	94.8 22	62.6 22
1954	2610.0 17	2560.0 17	2220.0 17	2150.0 17	1930.0 16	1520.0 16	1320.0 17	1210.0 17	981.0 17	806.0 16
1955	5050.0 13	4120.0 13	3110.0 15	2240.0 15	1910.0 17	1320.0 17	1400.0 16	1220.0 16	1040.0 16	597.0 17
1956	1690.0 19	1500.0 19	1140.0 19	1090.0 19	906.0 19	772.0 19	697.0 19	675.0 19	560.0 19	376.0 19
1957	15800.0 1	15300.0 1	14900.0 1	12600.0 1	9540.0 3	7790.0 2	6820.0 2	6780.0 1	4800.0 2	2640.0 3
1958	12400.0 2	11300.0 2	9040.0 7	5940.0 9	4380.0 10	3680.0 7	2980.0 9	2650.0 8	2500.0 8	1800.0 8
1959	3790.0 14	3660.0 14	3460.0 14	2800.0 14	2470.0 14	2040.0 14	1760.0 14	1600.0 14	1430.0 14	1030.0 13
1960	12100.0 3	11300.0 3	8610.0 8	5620.0 11	5280.0 7	3420.0 9	3010.0 7	2610.0 9	2270.0 9	1930.0 5
1961	11400.0 5	11200.0 6	11100.0 2	10200.0 4	7520.0 4	4830.0 4	4310.0 4	3830.0 4	3110.0 5	1920.0 6
1962	3560.0 16	3560.0 15	3560.0 13	3450.0 13	2990.0 12	2380.0 12	2150.0 11	1980.0 11	2070.0 10	1450.0 10
1963	2350.0 18	2040.0 18	1600.0 18	1400.0 18	1250.0 18	1020.0 18	1000.0 18	992.0 18	869.0 18	528.0 18
1964	1050.0 21	872.0 21	534.0 21	488.0 21	462.0 21	439.0 20	401.0 20	393.0 20	342.0 20	280.0 21
1965	9750.0 9	9550.0 9	7310.0 10	5860.0 10	3990.0 11	2640.0 11	2110.0 12	1800.0 12	1510.0 12	980.0 14
1966	5590.0 12	5480.0 12	5180.0 12	3830.0 12	2830.0 13	2070.0 13	1900.0 13	1780.0 13	1460.0 13	871.0 15
1967	1240.0 20	1010.0 20	744.0 20	635.0 20	499.0 20	422.0 21	390.0 21	381.0 21	302.0 21	287.0 20
1968	10800.0 7	10500.0 7	9550.0 6	7950.0 6	5490.0 6	4150.0 6	3870.0 6	3530.0 6	2960.0 6	1820.0 7
1969	10200.0 8	10200.0 8	10000.0 5	8080.0 5	5700.0 5	4790.0 5	3990.0 5	3820.0 5	3140.0 4	1940.0 4
1970	7370.0 11	7310.0 11	7270.0 11	7050.0 8	4790.0 9	3270.0 10	2740.0 10	2370.0 10	2000.0 11	1410.0 11
1971	8010.0 10	7990.0 10	7920.0 9	7200.0 7	5140.0 8	3670.0 8	3000.0 8	2930.0 7	2550.0 7	1690.0 9
1972	3770.0 15	3300.0 16	2580.0 16	2170.0 16	1930.0 15	1610.0 15	1500.0 15	1340.0 15	1340.0 15	1060.0 12
1973	11400.0 6	11300.0 4	11100.0 3	10800.0 3	10400.0 1	8580.0 1	7080.0 1	6160.0 2	5150.0 1	3110.0 1
1974	12000.0 4	11300.0 5	11000.0 4	10900.0 2	10400.0 2	6610.0 3	4990.0 3	4180.0 3	3690.0 3	2970.0 2



## ARKANSAS RIVER BASIN

07198500 DIRTY CREEK NEAR WARNER, OKLA.

LOCATION.--Lat 35°33'18", long 95°18'28", in SE 1/4 sec.32, T.13 N., R.19 E., at bridge on U.S. Highway 64, 4.0 mi (6.4 km) north of Warner, 6.5 mi (10.5 km) upstream from Georges Fork, and 6.5 mi (10.5 km) downstream from Butter Creek.

DRAINAGE AREA.--227 mi<sup>2</sup> (588 km<sup>2</sup>).

PERIOD OF RECORD.--October 1939 to September 1946.

AVERAGE DISCHARGE.--7 years (1940-46), 224 ft<sup>3</sup>/s (6.34 m<sup>3</sup>/s).

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

DIRTY CREEK NEAR WARNER, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS
1940	228					35		18	21	11	9	7	6	4	5	2	4	4	1	3	1		2	3		1	1								10046.0
1941	100					19		10	22	7	20	13	19	27	22	20	16	16	12	6	8	10	8	3	2	4	1								34903.0
1942	36					10		5	9	6	14	17	26	23	42	38	20	16	17	17	13	14	11	9	3	5	6	2	3	1	1	1			125629.0
1943	93					15		8	12	1	20	10	50	22	26	16	18	9	16	7	7		6	8	5	7	2	2	2	1	1		1		117461.0
1944	107					28		14	35	10	29	12	28	22	15	10	11	14	6	3	3	4	2	4	6	2		1							26351.0
1945	27	12	8	4	11	6	8	19	22	23	18	20	15	13	12	11	10	11	17	6	16	9	7	10	8	15	11	3	4	3	2	2	2		181773.1
1946	45	6	5	2	17	24	10	17	15	7	9	16	11	13	18	20	23	20	14	9	11	10	5	7	11	4	10	3	2		1				74166.0

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	636	2557	100.0	9	2.80	129	1573	61.5	18	80.0	90	526	20.6	27	2200	16	48	1.8
1	0.10	18	1921	75.1	10	4.10	62	1444	56.5	19	120.0	67	436	17.1	28	3300	11	32	1.2
2	0.20	13	1903	74.4	11	5.90	128	1382	54.0	20	170.0	63	369	14.4	29	4700	8	21	.8
3	0.30	6	1890	73.9	12	8.60	85	1254	49.0	21	240.0	51	306	12.0	30	6800	5	13	.5
4	0.40	28	1884	73.7	13	12.00	155	1169	45.7	22	350.0	40	255	10.0	31	9900	4	8	.3
5	0.60	30	1856	72.6	14	18.00	128	1014	39.7	23	510.0	46	215	8.4	32	14000	3	4	.1
6	0.90	125	1826	71.4	15	26.00	141	886	34.6	24	740.0	46	169	6.6	33	21000	1	1	.0
7	1.30	36	1701	66.5	16	38.00	119	745	29.1	25	1100.0	35	123	4.8	34				
8	1.90	92	1665	65.1	17	55.00	100	626	24.5	26	1500.0	40	88	3.4					

## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

DIRTY CREEK NEAR WARNER, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1941	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	4.54 2	18.00 2	37.60 3
1942	0.00 2	0.00 2	0.00 2	0.00 2	0.00 2	0.00 2	2.43 4	19.50 6	37.70 5	86.50 5
1943	0.00 3	0.00 3	0.00 3	0.14 6	3.40 6	16.60 6	17.50 5	21.30 3	101.00 6	244.00 4
1944	0.00 4	0.00 4	0.00 4	0.00 3	0.00 3	0.00 2	0.17 1	5.23 1	5.27 1	268.00 5
1945	0.00 5	0.00 5	0.00 5	0.00 4	0.53 5	6.32 5	5.58 3	21.90 4	33.10 2	219.00 2
1946	0.00 6	0.00 6	0.00 6	0.03 5	0.25 4	1.49 3	5.83 4	49.70 6	42.10 4	383.00 2

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

DIRTY CREEK NEAR WARNER, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL										
1940	2270.0	6	1580.0	7	767.0	6	363.0	7	193.0	7	105.0	7	75.8	7	62.7	7	54.8	7	27.4	7
1941	2270.0	7	1610.0	6	759.0	7	447.0	6	274.0	6	237.0	6	183.0	6	182.0	6	167.0	5	95.6	5
1942	15900.0	3	9470.0	3	4490.0	3	2210.0	3	1780.0	3	1010.0	3	731.0	3	559.0	3	420.0	3	344.0	2
1943	33800.0	1	17300.0	1	7760.0	1	4330.0	1	2580.0	1	1350.0	2	953.0	2	718.0	2	559.0	2	322.0	3
1944	3550.0	5	2030.0	5	1430.0	5	729.0	5	435.0	5	304.0	5	244.0	5	215.0	5	146.0	6	77.5	6
1945	20800.0	2	14400.0	2	6910.0	2	3510.0	2	2510.0	2	1950.0	1	1420.0	1	1360.0	1	938.0	1	498.0	1
1946	7520.0	4	4320.0	4	2170.0	4	1620.0	4	1080.0	4	700.0	4	536.0	4	453.0	4	392.0	4	203.0	4

## ARKANSAS RIVER BASIN

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## 07228000 CANADIAN RIVER NEAR CANADIAN, TEX.

LOCATION.--Lat 35°56'01", long 100°22'06", Hemphill County, near left bank on downstream side of pier of bridge on U.S. Highways 60 and 83, 500 ft (152 m) downstream from Panhandle and Santa Fe Railway Co. bridge, 1.2 mi (1.9 km) downstream from Red Deer Creek, 1.6 mi (2.6 km) northeast of Canadian, and at mile 433.9 (698.1 km).

DRAINAGE AREA.--22,866 mi<sup>2</sup> (59,222 km<sup>2</sup>), of which 4,688 mi<sup>2</sup> (12,142 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD.--January 1938 to September 1974. Statistical summaries for this station are divided into unregulated and regulated periods.

AVERAGE DISCHARGE.--27 years (1939-64), 549 ft<sup>3</sup>/s (15.5 m<sup>3</sup>/s); 10 years (1965-74), 93.5 ft<sup>3</sup>/s (2.65 m<sup>3</sup>/s).

REMARKS.--Some regulation by Lake Meredith in Texas.

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

## CANADIAN RIVER NEAR CANADIAN, TEXAS

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	
YEAR	NUMBER OF DAYS IN CLASS																																			CFS_DAYS
1939			20	1	17			12	8	5	6	14	13	21	23	38	35	27	26	22	10	10		12	11	8	8	3	3	6	2	4			271034.5	
1940		5	4	93	1	65	46	13	18	7	10	18	5	6	11	8	11	12	9	13	4	5	2												30680.7	
1941	17				34		6	14	2	7	7	11	5	11	13	20	17	21	16	24	13	17	14	11	15	14	11	13	9	12	7	2	2		1081575.4	
1942				2	5	1	3	1	4	6	5	3	4	6	17	15	34	70	52	23	25	13	11	11	12	10	14	13	4	1					947210.8	
1943			2	29	48	18	9	2	13	18	8	11	13	15	31	13	14	32	33	17	14	4	4	4	6	3	4								100035.4	
1944	2		2	15	17	7	75	28	12	9	16	4	3	7	6	9	6	35	27	15	13	12	8	8	7	11	9	3							131038.3	
1945	24	22	36	41	22	11	13	10	10	6	6	13	15	6	11	17	5	19	5	13	18	16	10	1	8	4	1								59301.1	
1946		7	7	21	11	86	49	35	17	7	5	9	6	4	9	27	3	2	9	4	11	5	9	3	7	3	4	3							97288.6	
1947	1	10	17	31	13	5	6	6	4	5	5	8	7	17	35	15	18	30	39	46	10	7	5	8	6	2	2	2	2	1					212835.4	
1948			34	71	13	11	11	21	19	26	13	4	10	19	14	13	16	8	22	13	4	4	3	2	6	5	3	1							134375.2	
1949			20	42	7	14	2	5	5	27	14	14	23	13	18	17	16	22	29	14	14	11	8	8	6	4	2	1	1						259731.4	
1950	2		10	38	17	13	10	8	8	14	26	19	37	17	10	18	20	9	5	10	15	11	10	19	5	8	4	2							238244.9	
1951		1	1	1	6	34	10	8	7	5	7	14	17	30	25	24	19	30	30	26	22	12	4	7	7	8	6		1	1		1	1		184103.6	
1952		18	8	23	21	28	16	9	8	9	12	11	31	50	31	29	25	6	3	11	12	2	1												23370.1	
1953		5	3	12	17	40	35	85	13	6	7	10	10	14	14	16	24	13	10	3	2	9	2	3	4	1	2	3	1	1					71851.0	
1954	1	2	24	15	15	44	13	19	10	6	14	7	14	15	11	23	37	23	13	6	4	14	12	6	7	4	4	1							89829.6	
1955			9	32	18	20	29	31	13	20	17	10	22	22	20	9	11	10	19	16	9	6	10	2	3		3	3	1						165380.4	
1956		4	20	33	6	19	10	52	40	44	19	12	9	14	10	10	11	7	12	3	8	4	10	1	5		1	1		1					50447.2	
1957		6	9	23	16	20	21	27	26	20	7	9	7	7	13	12	15	16	19	20	16	14	6	6	6	10	9	4					1		162924.6	
1958					5	3				5	6	13	11	25	29	37	41	25	30	31	31	19	9	11	9	9	8	5	2	1					293153.5	
1959			12	15	30	34	17	14	12	12	18	32	20	33	19	15	10	8	12	9	11	6	6	6		2									70625.1	
1960	1		2	3	26	18	8	6	9	11	16	12	17	15	17	29	20	13	27	35	17	21	8	5	9	2	5	5	7	2					299808.4	
1961			1	5	12	17	2	4	2	2	4	9	11	8	19	38	29	37	33	38	41	19	11	7	9		4	1	2						123813.6	
1962		5	18	8	17	17	23	3	8	7	4	10	11	14	14	16	26	31	38	32	17	14	11	8	5	4	1	1				1			75689.0	
1963		11	14	9	19	19	22	10	24	11	8	12	17	9	19	29	40	32	23	13	7	7	4	3	1	2									24317.7	
1964		30	21	15	8	33	75	40	22	9	7	4	6	7	22	16	7	14	7	9	4	3	3	3		1									12635.4	

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	91	9497	100.0	9	3.60	259	6325	66.6	18	130.0	461	2827	29.8	27	4800	84	251	2.6
1	0.10	121	9406	99.0	10	5.40	251	6066	63.9	19	200.0	437	2366	24.9	28	7100	60	167	1.7
2	0.20	160	9285	97.8	11	8.00	298	5815	61.2	20	290.0	500	1929	20.3	29	11000	49	107	1.1
3	0.30	290	9125	96.1	12	12.00	325	5517	58.1	21	440.0	347	1429	15.0	30	16000	37	58	.6
4	0.50	364	8835	93.0	13	18.00	386	5192	54.7	22	650.0	247	1082	11.4	31	24000	15	21	.2
5	0.70	872	8471	89.2	14	27.00	436	4806	50.6	23	970.0	167	835	8.8	32	35000	4	6	.0
6	1.10	433	7599	80.0	15	40.00	555	4370	46.0	24	1400.0	167	668	7.0	33	52000	2	2	.0
7	1.60	520	7166	75.5	16	59.00	498	3815	40.2	25	2100.0	143	501	5.3	34				
8	2.40	321	6646	70.0	17	88.00	490	3317	34.9	26	3200.0	107	358	3.8					

## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## CANADIAN RIVER NEAR CANADIAN, TEXAS

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1940	0.30 20	0.30 17	0.50 13	0.30 9	0.54 8	0.99 7	1.26 4	1.33 2	33.20 5	534.00 18
1941	0.00 1	0.00 1	0.69 22	0.80 19	1.11 14	4.39 10	50.00 17	96.70 19	118.00 14	143.00 6
1942	0.00 2	0.00 2	0.00 1	47.50 25	312.00 25	388.00 25	411.00 25	474.00 25	2390.00 25	4030.00 25
1943	0.70 25	0.77 25	1.10 25	6.37 24	40.30 24	76.50 24	235.00 24	210.00 24	444.00 23	1680.00 24
1944	0.40 21	0.43 21	0.51 18	0.62 14	0.63 10	0.88 5	1.00 1	4.46 4	34.80 6	110.00 4
1945	0.00 3	0.07 6	0.21 9	0.31 10	3.20 19	26.20 21	120.00 22	196.00 22	208.00 20	407.00 15
1946	0.00 4	0.00 3	0.00 2	0.00 1	0.12 1	0.17 1	5.75 8	10.60 7	52.10 12	81.00 3
1947	0.10 9	0.10 7	0.13 6	0.16 5	0.32 4	25.60 20	156.00 23	155.00 20	461.00 24	671.00 19
1948	0.00 5	0.20 14	0.23 10	0.28 8	0.39 7	0.61 4	1.01 2	1.06 1	2.97 2	191.00 8
1949	0.50 22	0.50 22	0.54 19	0.64 15	0.69 11	8.52 13	12.60 9	38.60 13	49.20 11	350.00 13
1950	0.50 23	0.57 23	0.61 20	0.72 17	2.12 18	13.00 16	24.20 12	34.10 12	38.00 8	701.00 21
1951	0.10 10	0.23 15	0.50 17	1.03 22	5.95 20	18.30 17	62.00 18	88.20 15	129.00 16	698.00 20
1952	0.10 11	0.40 20	0.61 21	0.94 21	1.95 17	24.60 19	36.60 15	40.00 14	55.80 13	468.00 16
1953	0.10 12	0.10 8	0.10 5	0.10 3	0.17 2	0.44 2	2.15 6	12.30 8	42.10 10	57.70 1
1954	0.10 13	0.10 9	0.26 11	0.39 12	0.71 12	3.52 9	42.80 16	90.50 16	139.00 18	251.00 11
1955	0.00 6	0.17 12	0.20 8	0.21 6	0.59 9	4.40 11	13.80 10	20.50 9	120.00 15	230.00 10
1956	0.10 14	0.13 11	0.44 16	0.71 16	1.22 15	2.48 8	2.96 7	7.40 5	22.70 3	403.00 14
1957	0.10 15	0.10 10	0.17 7	0.21 7	0.32 5	0.45 3	1.09 3	1.36 3	2.55 1	142.00 5
1958	0.20 16	0.20 13	0.26 12	0.34 11	14.90 23	59.00 22	86.40 19	93.50 17	138.00 17	506.00 17
1959	0.70 24	0.73 24	0.79 23	1.17 23	1.26 16	8.78 14	17.10 11	23.80 10	23.10 4	740.00 22
1960	0.30 19	0.50 16	0.40 14	0.76 18	15.30 21	19.70 18	25.80 14	204.00 23	275.00 21	327.00 12
1961	0.10 16	0.33 18	0.40 24	0.93 20	1.00 13	9.60 15	95.10 20	96.30 18	363.00 22	872.00 23
1962	0.20 17	0.57 19	0.44 15	0.60 13	14.60 22	72.00 23	110.00 21	161.00 21	152.00 19	216.00 9
1963	0.00 7	0.00 4	0.03 4	0.06 2	0.19 3	7.95 12	25.00 13	51.60 11	39.90 9	153.00 7
1964	0.00 8	0.00 5	0.01 3	0.11 4	0.36 6	0.91 6	1.29 5	9.24 6	35.40 7	62.70 2

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## CANADIAN RIVER NEAR CANADIAN, TEXAS

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1939	23500.0 8	16400.0 7	8480.0 7	4340.0 9	2340.0 12	2250.0 7	1640.0 8	1320.0 6	1040.0 7	743.0 5
1940	1980.0 24	1090.0 25	753.0 25	515.0 24	308.0 24	196.0 24	169.0 23	177.0 23	132.0 23	83.8 23
1941	60600.0 1	42200.0 1	25800.0 1	15000.0 1	11200.0 1	8760.0 1	7890.0 1	6880.0 1	5760.0 1	2960.0 1
1942	41100.0 2	27400.0 2	21500.0 2	14100.0 2	10400.0 2	5970.0 2	4190.0 2	3260.0 2	2910.0 2	2600.0 2
1943	6470.0 19	6110.0 17	4400.0 15	2810.0 14	1690.0 14	932.0 16	776.0 14	641.0 15	444.0 15	274.0 15
1944	5330.0 21	4590.0 19	3790.0 18	2170.0 18	1400.0 15	955.0 15	833.0 13	871.0 13	599.0 13	358.0 13
1945	3230.0 23	2730.0 23	1780.0 22	1210.0 22	606.0 22	476.0 22	359.0 22	285.0 22	213.0 22	162.0 21
1946	11500.0 15	5950.0 18	3960.0 16	3260.0 13	1950.0 13	1030.0 13	689.0 16	705.0 14	481.0 14	267.0 16
1947	31200.0 5	23200.0 4	15300.0 3	8370.0 3	4320.0 6	2210.0 9	1540.0 9	1230.0 9	858.0 10	583.0 8
1948	14500.0 13	8330.0 14	7680.0 9	4080.0 10	2630.0 10	1650.0 11	1330.0 11	1000.0 12	711.0 12	367.0 12
1949	30700.0 6	18400.0 5	10700.0 6	6940.0 5	4530.0 4	3170.0 3	2450.0 4	1980.0 5	1360.0 4	712.0 6
1950	15200.0 12	10400.0 11	7180.0 11	6170.0 7	4430.0 5	2650.0 6	2380.0 6	1900.0 6	1260.0 6	653.0 7
1951	57200.0 3	25600.0 3	12900.0 5	6410.0 6	3840.0 7	2220.0 8	1730.0 7	1330.0 7	917.0 8	504.0 9
1952	5980.0 20	2800.0 22	1460.0 23	723.0 23	373.0 23	204.0 23	136.0 24	102.0 25	73.2 25	63.9 25
1953	11100.0 16	7040.0 16	3890.0 17	2020.0 19	1360.0 16	998.0 14	705.0 15	531.0 16	353.0 18	197.0 19
1954	7620.0 18	3420.0 21	2540.0 20	2290.0 17	1330.0 18	724.0 18	575.0 18	486.0 18	351.0 19	246.0 17
1955	23500.0 7	15700.0 8	7920.0 8	3980.0 11	2900.0 9	1950.0 10	1430.0 10	1160.0 11	784.0 11	453.0 10
1956	12600.0 14	7260.0 15	3620.0 19	1940.0 20	1260.0 20	698.0 21	509.0 20	385.0 20	265.0 20	138.0 22
1957	31700.0 4	12100.0 9	6090.0 12	3800.0 12	2460.0 11	1570.0 12	1290.0 12	1230.0 10	873.0 9	446.0 11
1958	20100.0 10	12100.0 10	7330.0 10	5230.0 8	4810.0 3	2890.0 5	2440.0 5	2060.0 3	1460.0 3	803.0 4
1959	5120.0 22	3440.0 20	2300.0 21	1720.0 21	1100.0 21	773.0 17	597.0 17	530.0 17	363.0 17	193.0 20
1960	22600.0 9	18000.0 6	13200.0 4	7100.0 4	3600.0 8	2960.0 4	2570.0 3	2050.0 4	1350.0 5	819.0 3
1961	10700.0 17	9160.0 12	4940.0 13	2510.0 16	1360.0 17	716.0 20	525.0 19	416.0 19	403.0 16	339.0 14
1962	16600.0 11	8660.0 13	4580.0 14	2540.0 15	1320.0 19	717.0 19	487.0 21	377.0 21	265.0 21	207.0 18
1963	1660.0 25	1530.0 24	900.0 24	474.0 25	253.0 25	139.0 25	119.0 25	136.0 24	90.1 24	66.6 24
1964	1440.0 26	904.0 26	685.0 26	333.0 26	198.0 26	99.9 26	70.8 26	61.8 26	67.8 26	34.5 26

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

## CANADIAN RIVER NEAR CANADIAN, TEXAS

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS	
1965	9							9	9	13	18	25	23	14	13	13	12	15	21	25	35	34	19	23	6	9	3	4	5	3	1	1	1	2	50045.9	
1966				2	6	6	12	24	11	17	26	18	13	24	11	10	9	12	46	37	33	20	14	6	3	2	1		2						13666.7	
1967							2	6	5	19	53	24	14	12	9	13	20	29	33	46	32	19	7	7	9	3		1				1	1		22179.3	
1968		5	7	16	13	8	11		9	12	27	6	10	10	11	12	16	14	20	39	38	39	17	8	6	5	3	1	1	1			1		26220.1	
1969	10	5	6	7	4	3	11		6	2	3	4	2	10	8	10	11	30	40	50	47	40	23	13	9	4	1	1	1	2	1		1		57005.0	
1970	71	2	1	3	13	17	14	7	1		3	5	2	2	4	7	5	9	15	45	61	46	21	3	6				1				1		21085.9	
1971				3	1	2	10	6	5	4	4	11	15	12	11	13	30	39	39	33	55	35	16	5	5	3	3	1	3		1				24975.3	
1972										1	15	17	16	13	17	20	16	24	19	34	22	24	23	23	24	41	4	6	3		2	1		1		69374.4
1973									10	34	41	21	9	4	3	14	11	23	23	30	31	45	32	11	7	6	1	4	1	2	1			1		39798.9
1974								17	8	8	15	26	18	27	13	19	18	24	40	43	50	21	11	1	3				1	1	1					17131.0

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	90	3652	100.0	9	0.40	119	3232	88.5	18	18.0	290	1928	52.8	27	780	19	61	1.6					
1	0.01	12	3562	97.5	10	0.60	211	3113	85.2	19	27.0	382	1638	44.9	28	1200	16	42	1.1					
2	0.02	14	3550	97.2	11	1.00	154	2902	79.5	20	42.0	406	1256	34.4	29	1800	6	26	.7					
3	0.03	31	3536	96.8	12	1.50	115	2748	75.2	21	63.0	315	850	23.3	30	2700	9	20	.5					
4	0.05	37	3505	96.0	13	2.20	119	2633	72.1	22	96.0	204	535	14.6	31	4200	6	11	.3					
5	0.07	36	3468	95.0	14	3.40	102	2514	68.8	23	150.0	93	331	9.1	32	6300	3	5	.1					
6	0.10	69	3432	94.0	15	5.10	128	2412	66.0	24	220.0	85	238	6.5	33	9600	2	2	.0					
7	0.20	69	3363	92.1	16	7.80	150	2284	62.5	25	340.0	72	153	4.2	34									
8	0.30	62	3294	90.2	17	12.00	206	2134	58.4	26	510.0	20	81	2.2										

## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## CANADIAN RIVER NEAR CANADIAN, TEXAS

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL										
1966	0.10	6	0.10	6	0.13	6	0.15	5	0.22	4	28.00	9	30.10	7	29.80	7	38.40	5	129.00	8
1967	0.04	5	0.05	5	0.06	4	0.06	4	0.12	3	0.26	2	3.25	3	15.50	4	25.10	3	28.50	1
1968	0.16	7	0.18	7	0.36	7	0.43	8	2.13	8	3.55	4	9.71	4	13.90	3	25.70	4	70.60	4
1969	0.01	3	0.01	3	0.01	3	0.02	3	0.25	5	14.40	8	11.20	5	25.40	6	94.00	9	122.00	7
1970	0.00	1	0.00	1	0.00	1	0.00	1	0.04	2	6.55	6	37.40	8	48.20	8	53.30	7	112.00	6
1971	0.00	2	0.00	2	0.00	2	0.00	2	0.00	1	0.01	1	0.04	1	2.43	1	47.10	6	53.70	2
1972	0.04	4	0.04	4	0.07	5	0.30	6	2.13	9	10.10	7	46.50	9	77.00	9	88.10	8	219.00	9
1973	0.46	9	0.53	9	0.56	9	0.62	9	0.94	7	6.14	5	14.30	6	18.60	5	23.80	2	70.10	3
1974	0.32	8	0.35	8	0.39	8	0.42	7	0.56	6	1.07	3	1.59	2	3.84	2	6.92	1	93.20	5

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## CANADIAN RIVER NEAR CANADIAN, TEXAS

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL										
1965	7850.0	3	5220.0	2	2320.0	2	1760.0	1	1060.0	2	588.0	2	394.0	2	317.0	2	226.0	2	137.0	3
1966	1450.0	10	775.0	10	341.0	10	176.0	10	107.0	10	84.1	10	59.5	10	50.6	10	43.0	10	37.4	10
1967	5940.0	5	2020.0	8	870.0	9	497.0	8	303.0	7	238.0	6	168.0	6	137.0	6	101.0	6	60.8	7
1968	5750.0	7	2220.0	7	979.0	7	818.0	5	474.0	5	275.0	5	188.0	5	157.0	5	125.0	5	71.6	5
1969	12700.0	1	4280.0	3	1850.0	3	969.0	3	571.0	4	401.0	4	285.0	4	260.0	4	198.0	4	156.0	2
1970	5920.0	6	2600.0	5	1140.0	6	533.0	7	266.0	9	133.0	9	88.8	9	74.1	9	68.3	9	57.8	8
1971	4180.0	8	2000.0	9	919.0	8	431.0	9	296.0	8	159.0	8	118.0	8	128.0	7	88.1	7	68.4	6
1972	9630.0	2	5400.0	1	2920.0	1	1600.0	2	1110.0	1	729.0	1	596.0	1	506.0	1	349.0	1	190.0	1
1973	7660.0	4	3530.0	4	1730.0	4	925.0	4	799.0	3	524.0	3	376.0	3	299.0	3	207.0	3	109.0	4
1974	4150.0	9	2560.0	6	1220.0	5	616.0	6	337.0	6	198.0	7	147.0	7	119.0	8	86.1	8	46.9	9

LOCATION.--Lat 35°34'00", long 98°22'45", in SE 1/4 SW 1/4 sec.28, T.13 N., R.11 W., Blaine County, on downstream side of left abutment of Chicago, Rock Island and Pacific Railroad Co. bridge, 1.0 mi (1.6 km) north of Bridgeport, 2.8 mi (4.5 km) upstream from Lumpmouth Creek, and at mile 267.1 (429.8 km).

PERIOD OF RECORD.--October 1944 to September 1964; October 1969 to September 1974.

REMARKS.--Occasional slight regulation by Conchas Reservoir in New Mexico, and by Lake Meredith in Texas since 1964.

## CANADIAN RIVER AT BRIDGEPORT, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34			
YEAR																																			CFS_DAYS			
1945																																			5 10 4 5 7 9 27 28 26 25 31 39 31 25 25 15 11 6 2 4 2	102329.0		
NUMBER OF DAYS IN CLASS																																						
1946	17																																			4 2 2 2 18 8 23 88 44 38 22 25 14 11 11 5 10 6 3 5 1 5 1	76618.0	
1947																																			38 3 7 6 16 14 39 24 19 22 38 22 29 18 15 11 10 10 5 2 5 4 3 5	334972.0		
1948																																			14 10 25 48 73 55 33 19 9 15 11 11 8 7 8 8 5 1 3 1 1	125001.0		
1949																																			24 14 6 7 16 34 18 15 24 33 23 27 20 27 19 12 15 7 9 8 3 2 1 1	343725.3		
1950																																			10 12100 34 41 34 33 11 11 4 11 7 7 7 8 13 7 6 5 2 2	284403.5		
1951	2 1																																			4 9 17 5 86 49 19 34 23 20 17 14 15 10 6 7 8 4 3 1 1 1 2	239146.4	
1952	62 6	3 1																																			3 2 2 4 14 11 15 22 27 34 64 31 28 14 7 8 3 3 1 1	23216.5
1953	31 6	4 2																																			1 6 4 3 16 19 31 52 80 36 19 19 8 2 5 2 3 3 1 5 3 3 1	39092.5
1954	50	1 1																																			1 4 1 1 11 7 7 7 42 39 31 49 26 14 17 13 6 4 9 9 6 2 3 1 2 1	84047.1
1955																																			1 2 5 11 11 53 93 37 8 10 13 11 13 4 16 6 16 10 9 10 4 5 3 2 2 1	166951.7		
1956	56	1																																			1 1 2 3 6 6 11 32 92 80 19 13 8 7 3 4 6 3 4 2 1 2 2 1	57895.8
1957	14																																			1 5 59 68 38 13 11 9 12 11 12 13 12 16 16 12 13 8 13 7 2	245423.6	
1958																																			6 8 6 28 22 35 31 64 32 23 16 20 24 9 12 11 8 4 2 4	284663.5		
1959																																			1 1 2 5 19 27 43 49 33 33 24 24 30 13 9 13 10 6 11 3 4 3 2	153459.4		
1960																																			3 1 14 29 60 34 39 31 20 31 21 17 16 12 9 13 3 5 4 4	421990.0		
1961																																			9 23 26 17 21 37 61 45 37 26 14 14 10 13 7 2 1 1 1	176858.0		
1962																																			3 22 35 38 54 40 39 37 30 22 9 12 8 3 4 2 2 3 2	173510.0		
1963																																			1 1 8 11 10 11 12 22 33 69 66 49 36 10 8 4 3 1 4 3	56603.3		
1964	25	1																																			2 1 2 1 4 4 7 32 55 81 43 44 19 16 5 12 4 3 2 2 1	33553.6

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	257	7305	100.0	9	3.30	110	6849	93.8	18	110.0	513	2418	33.1	27	3800	82	203	2.7
1	0.10	13	7048	96.5	10	4.90	143	6739	92.3	19	170.0	360	1905	26.1	28	5600	49	121	1.6
2	0.20	10	7035	96.3	11	7.30	300	6596	90.3	20	240.0	313	1545	21.1	29	8300	30	72	.9
3	0.30	5	7025	96.2	12	11.00	541	6296	86.2	21	360.0	248	1232	16.9	30	12000	23	42	.5
4	0.50	5	7020	96.1	13	16.00	890	5755	78.8	22	530.0	218	984	13.5	31	18000	14	19	.2
5	0.70	14	7015	96.0	14	23.00	751	4865	66.6	23	790.0	194	766	10.5	32	27000	3	5	.0
6	1.00	25	7001	95.8	15	35.00	622	4114	56.3	24	1200.0	139	572	7.8	33	39000	2	2	.0
7	1.50	42	6976	95.5	16	51.00	592	3492	47.8	25	1700.0	136	433	5.9	34				
8	2.20	85	6934	94.9	17	76.00	482	2900	39.7	26	2600.0	94	297	4.1					

## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## CANADIAN RIVER AT BRIDGEPORT, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1946	1.00 9	1.00 7	1.57 7	1.93 6	19.40 15	22.80 13	39.10 12	45.70 11	103.00 9	201.00 6
1947	0.00 1	0.00 1	0.14 5	0.21 5	1.97 5	15.40 6	114.00 16	121.00 16	336.00 17	565.00 11
1948	2.00 11	2.00 10	2.00 8	2.00 7	2.53 6	4.75 2	6.69 2	9.48 2	21.70 3	602.00 12
1949	3.60 12	3.60 12	3.61 11	3.72 9	4.47 7	8.16 3	87.70 15	78.90 13	182.00 14	414.00 9
1950	4.10 13	4.50 13	6.46 12	9.73 13	17.70 12	22.60 12	23.10 8	33.60 8	38.70 5	807.00 16
1951	7.00 16	11.00 16	15.70 17	16.20 16	17.90 13	21.50 11	33.80 11	60.10 12	135.00 12	823.00 17
1952	0.00 2	0.33 6	0.47 6	2.41 8	6.85 8	18.70 9	22.70 6	27.70 6	41.30 6	623.00 13
1953	0.00 3	0.00 2	0.00 1	0.00 1	0.00 1	1.17 1	2.74 1	3.46 1	5.60 1	40.40 1
1954	0.00 4	0.00 3	0.00 2	0.00 2	1.29 3	25.50 14	25.30 9	40.40 9	117.00 10	157.00 4
1955	0.00 5	0.00 4	0.00 3	0.00 3	1.90 4	8.87 4	10.80 3	13.00 4	46.50 7	195.00 5
1956	0.70 8	1.40 8	2.00 9	7.70 12	8.71 9	21.30 10	23.10 7	26.20 5	199.00 15	532.00 10
1957	0.00 6	0.00 5	0.00 4	0.00 4	0.00 2	10.80 5	11.30 4	11.60 3	13.10 2	85.60 2
1958	4.20 14	5.50 14	8.23 15	10.60 14	18.00 14	45.50 15	70.40 13	94.90 15	135.00 13	719.00 14
1959	4.80 15	5.60 15	6.54 13	7.66 11	9.63 11	16.30 7	18.90 5	44.90 10	72.40 8	743.00 15
1960	0.40 7	1.70 9	8.16 14	15.30 15	52.00 17	59.20 16	436.00 19	561.00 19	766.00 19	833.00 18
1961	11.00 17	13.00 17	27.30 19	42.30 19	109.00 19	152.00 19	181.00 18	193.00 18	583.00 18	1000.00 19
1962	12.00 18	14.30 18	16.10 18	18.60 18	51.00 16	83.60 18	128.00 17	170.00 17	332.00 16	352.00 7
1963	15.00 19	15.30 19	15.70 16	18.00 17	55.30 18	66.50 17	76.00 14	89.10 14	126.00 11	383.00 8
1964	1.20 10	2.27 11	2.83 10	5.36 10	9.25 10	18.00 8	27.10 10	28.50 7	30.80 4	123.00 3

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## CANADIAN RIVER AT BRIDGEPORT, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1945	10800.0 14	7800.0 14	3720.0 15	1780.0 16	841.0 16	509.0 17	400.0 15	340.0 15	319.0 15	280.0 13
1946	5850.0 16	3860.0 16	2810.0 16	1920.0 15	1080.0 14	544.0 16	495.0 14	475.0 14	336.0 14	210.0 15
1947	26300.0 4	21900.0 2	14000.0 3	8260.0 4	4320.0 5	2740.0 7	1920.0 7	1580.0 7	1090.0 7	918.0 3
1948	37400.0 2	18900.0 5	8950.0 6	4250.0 9	2300.0 9	1420.0 10	1040.0 10	782.0 11	645.0 10	342.0 12
1949	27400.0 3	20700.0 4	13500.0 4	7730.0 5	5660.0 3	3790.0 1	2940.0 2	2280.0 2	1720.0 1	942.0 2
1950	19600.0 7	14500.0 6	10100.0 5	8720.0 2	6180.0 2	3750.0 2	3010.0 1	2290.0 1	1520.0 2	779.0 5
1951	40400.0 1	35100.0 1	20700.0 1	10200.0 1	6460.0 1	3450.0 3	2370.0 4	1790.0 5	1240.0 6	655.0 7
1952	2980.0 20	1220.0 20	686.0 20	423.0 20	237.0 20	185.0 20	174.0 20	141.0 20	116.0 20	63.4 20
1953	4570.0 19	3620.0 17	2330.0 18	1190.0 17	653.0 18	550.0 14	376.0 16	291.0 16	199.0 18	107.0 18
1954	10200.0 15	7390.0 15	4360.0 13	2620.0 12	1770.0 11	985.0 13	663.0 13	512.0 13	346.0 13	230.0 14
1955	20400.0 6	12700.0 8	8760.0 7	4980.0 6	3230.0 8	2230.0 8	1650.0 8	1310.0 8	864.0 8	457.0 10
1956	15400.0 11	8820.0 13	4350.0 14	2090.0 14	1060.0 15	545.0 15	371.0 17	284.0 17	200.0 17	158.0 16
1957	12600.0 13	10100.0 11	6690.0 11	4860.0 7	3450.0 7	2880.0 5	2150.0 6	1690.0 6	1310.0 5	672.0 6
1958	15200.0 12	13500.0 7	7070.0 8	4400.0 8	4220.0 6	2830.0 6	2360.0 5	1950.0 4	1410.0 3	780.0 4
1959	16600.0 8	11400.0 10	5230.0 12	2450.0 13	1560.0 13	1250.0 11	1100.0 9	874.0 10	766.0 9	420.0 11
1960	25500.0 5	21200.0 3	15700.0 2	8320.0 3	4590.0 4	3300.0 4	2620.0 3	2060.0 3	1410.0 4	1150.0 1
1961	16000.0 9	9110.0 12	6860.0 9	4180.0 10	2280.0 10	1210.0 12	889.0 12	708.0 12	622.0 11	485.0 8
1962	16000.0 10	12000.0 9	6830.0 10	3400.0 11	1740.0 12	1430.0 9	1010.0 11	899.0 9	620.0 12	475.0 9
1963	5000.0 17	3450.0 18	2380.0 17	1160.0 18	789.0 17	410.0 18	339.0 18	281.0 18	222.0 16	155.0 17
1964	4960.0 18	2600.0 19	1280.0 19	646.0 19	385.0 19	239.0 19	229.0 19	203.0 19	159.0 19	91.7 19



STATION NUMBER 07228500

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

CANADIAN RIVER NEAR BRIDGEPORT, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS	
1970	35	1			4		3	2	7	2	3	4	10	12	14	19	13	21	37	32	74	40	14	6	5	4		1		1		1			40280.5	
1971											1	2	10	21	11	22	74	134	25	23	11	12	7	3	2	1	5						1			28637.3
1972	28							1		1	3	3	6	4	9	9	22	28	27	42	38	39	49	28	8	12	3	2		2	1	1				71502.8
1973													21	11	13	18	27	38	24	33	30	12	46	34	12	13	11	9	4	5	2	1	1			139201.3
1974	10											2	5	3	2	1	2	27	43	41	19	60	59	52	13	6	7	2	5	3	1	1			1	86961.0

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	73	1826	100.0	9	0.50	3	1735	95.0	18	26.0	154	1064	58.3	27	1400	17	43	2.3
1	0.01	1	1753	96.0	10	0.80	9	1732	94.9	19	40.0	149	910	49.8	28	2100	7	26	1.4
2	0.02	0	1752	95.9	11	1.20	14	1723	94.4	20	62.0	213	761	41.7	29	3300	9	19	1.0
3	0.03	0	1752	95.9	12	1.80	50	1709	93.6	21	97.0	162	548	30.0	30	5100	4	10	.5
4	0.05	4	1752	95.9	13	2.90	50	1659	90.9	22	150.0	168	386	21.1	31	7800	4	6	.3
5	0.08	0	1748	95.7	14	4.50	48	1609	88.1	23	230.0	84	218	11.9	32	12000	1	2	.1
6	0.10	3	1748	95.7	15	6.90	70	1561	85.5	24	360.0	33	134	7.3	33	19000	1	1	.0
7	0.20	3	1745	95.6	16	11.00	163	1491	81.7	25	560.0	37	101	5.5	34				
8	0.30	7	1742	95.4	17	17.00	264	1328	72.7	26	870.0	21	64	3.5					

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

CANADIAN RIVER NEAR BRIDGEPORT, OKLAHOMA

YEAR	1		3		7		14		30		60		90		120		183		ANNUAL
1971	0.00	1	0.00	1	0.00	1	0.00	1	0.13	2	1.06	1	1.84	1	5.57	1	11.70	1	95.50
1972	1.10	3	1.23	3	1.84	3	3.31	3	5.91	3	10.60	3	23.30	3	28.80	3	111.00	4	219.00
1973	0.00	2	0.00	2	0.00	2	0.00	2	0.02	1	6.68	2	20.00	2	18.20	2	27.40	2	242.00
1974	3.20	4	3.40	4	4.16	4	6.27	4	9.50	4	20.60	4	28.50	4	62.80	4	67.40	3	253.00

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

CANADIAN RIVER NEAR BRIDGEPORT, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL										
1970	11800.0	3	5620.0	4	2590.0	4	1320.0	4	827.0	4	465.0	4	342.0	4	281.0	4	206.0	4	110.0	4
1971	11500.0	4	4250.0	5	2090.0	5	1080.0	5	556.0	5	285.0	5	204.0	5	188.0	5	133.0	5	78.5	5
1972	10300.0	5	5790.0	3	2860.0	3	1470.0	3	1030.0	3	738.0	2	554.0	2	464.0	2	327.0	3	195.0	3
1973	18900.0	2	10500.0	1	5860.0	1	3090.0	1	2360.0	1	1610.0	1	1250.0	1	991.0	1	712.0	1	381.0	1
1974	23400.0	1	10400.0	2	4540.0	2	2210.0	2	1270.0	2	655.0	3	439.0	3	353.0	3	364.0	2	258.0	2

## 07229000 CANADIAN RIVER NEAR NEWCASTLE, OKLA.

LOCATION.--Lat 35°18'03", long 97°35'54", in NW 1/4 NW 1/4 sec.35, T.10 N., R.4 W., at bridge on U.S. Highway 62 and 77, 4.0 mi (6.4 km) north of Newcastle, 9.0 mi (14.5 km) downstream from Worley Creek, and at mile 213.5 (343.5 km).

DRAINAGE AREA.--25,763 mi<sup>2</sup> (66,726 km<sup>2</sup>) of which 4,801 mi<sup>2</sup> (12,435 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD.--October 1938 to September 1945.

AVERAGE DISCHARGE.--7 years (1939-45), 1,140 ft<sup>3</sup>/s (32.3 m<sup>3</sup>/s).

REMARKS.--Occasional regulation by Conchas Reservoir in New Mexico.

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

## CANADIAN RIVER NEAR NEWCASTLE, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS	
1939	56	5																																		295900.0
1940	210	9																																		21278.0
1941	50																																			1072983.0
1942																																				1030765.0
1943	77	7																																		152193.0
1944	66	3																																		153743.0
1945	18	8																																		185218.0

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	477	2557	100.0	9	15.00	59	1843	72.1	18	300.0	163	843	33.0	27	6300	25	115	4.4					
1	1.00	32	2080	81.3	10	21.00	78	1784	69.8	19	430.0	106	680	26.6	28	8800	32	90	3.5					
2	1.40	0	2048	80.1	11	29.00	61	1706	66.7	20	600.0	95	574	22.4	29	12000	19	58	2.2					
3	2.00	29	2048	80.1	12	40.00	125	1645	64.3	21	830.0	92	479	18.7	30	17000	23	39	1.5					
4	2.70	19	2019	79.0	13	57.00	106	1520	59.4	22	1200.0	58	387	15.1	31	24000	9	16	.6					
5	3.80	45	2000	78.2	14	79.00	140	1414	55.3	23	1600.0	81	329	12.9	32	34000	4	7	.2					
6	5.40	29	1955	76.5	15	110.00	170	1274	49.8	24	2300.0	60	248	9.7	33	47000	1	3	.1					
7	7.50	54	1926	75.3	16	160.00	146	1104	43.2	25	3200.0	48	188	7.4	34	66000	2	2	.0					
8	11.00	29	1872	73.2	17	220.00	115	958	37.5	26	4500.0	25	140	5.5										

## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## CANADIAN RIVER NEAR NEWCASTLE, OKLAHOMA

YEAR	1		3		7		14		30		60		90		120		183		ANNUAL
1940	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.40	1	17.70	1	640.00
1941	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.02	2	14.60	3	11.90	3	65.50	3	116.00
1942	5.00	5	5.00	5	7.14	5	46.40	6	207.00	6	336.00	6	369.00	6	453.00	6	2600.00	6	4140.00
1943	7.00	6	13.00	6	19.60	6	29.70	5	32.90	5	113.00	5	261.00	5	300.00	5	658.00	5	1880.00
1944	0.00	3	0.00	3	0.00	3	0.00	3	0.00	3	3.42	3	2.28	2	11.10	2	21.40	2	198.00
1945	0.00	4	0.00	4	0.00	4	2.21	4	27.60	4	112.00	4	153.00	4	202.00	4	286.00	4	457.00

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## CANADIAN RIVER NEAR NEWCASTLE, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL										
1939	35200.0	3	19900.0	3	11200.0	3	9090.0	3	4740.0	3	2890.0	3	2100.0	3	1610.0	3	1260.0	3	811.0	3
1940	2760.0	7	1910.0	7	936.0	7	514.0	7	287.0	7	202.0	7	155.0	7	128.0	7	108.0	7	58.1	7
1941	83200.0	1	45400.0	1	23200.0	1	14600.0	2	12400.0	1	10200.0	1	8630.0	1	7160.0	1	5720.0	1	2940.0	1
1942	38200.0	2	28200.0	2	21900.0	2	15100.0	2	11300.0	2	6810.0	2	4780.0	2	3660.0	2	3100.0	2	2820.0	2
1943	13000.0	6	10400.0	5	7090.0	4	4310.0	4	2460.0	4	1400.0	4	1140.0	4	947.0	4	657.0	4	417.0	6
1944	17500.0	5	8080.0	6	4400.0	6	2840.0	6	1680.0	5	1040.0	5	960.0	5	836.0	5	677.0	5	420.0	5
1945	20900.0	4	13100.0	4	6100.0	5	2850.0	5	1420.0	6	845.0	6	873.0	6	762.0	6	719.0	4	507.0	4

## ARKANSAS RIVER BASIN

07229100 CANADIAN RIVER NEAR NOBLE, OKLA.

LOCATION.--Lat 35°04'55", long 97°22'52", in N 1/4 sec.14, T.7 N., R.2 W., McClain County, on right bank 80 ft (24.4 m) upstream from Atchison, Topeka and Santa Fe Railway Co. bridge, 3.6 mi (5.8 km) upstream from Chouteau Creek, 3.8 mi (6.1 km) south of Noble, and at mile 190.8 (307.0 km).

DRAINAGE AREA.--25,911 mi<sup>2</sup> (67,109 km<sup>2</sup>), of which 4,801 mi<sup>2</sup> (12,435 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD.--October 1964 to September 1974.

AVERAGE DISCHARGE.--10 years (1965-74), 293 ft<sup>3</sup>/s (8.30 m<sup>3</sup>/s).

REMARKS.--Occasional slight regulation by reservoirs in Texas and New Mexico.

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

## CANADIAN RIVER NEAR NOBLE, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	
YEAR	NUMBER OF DAYS IN CLASS																																			CFS_DAYS
1965	6	1	4			1	8	15	25	13	7	7	7	4	5	12	24	46	46	37	19	13	16	13	6	8	8	4	3	2	1	1	2	1		146446.2
1966		2	5	2	12	20	12	8	15	15	12	8	7	27	44	39	24	21	19	35	17	5	4	3	4	4	1									47568.8
1967				6	9	4	44	36	22	33	29	25	24	26	33	15	14	14	9	4	6	1	2	1	2	3	1	1	1							52250.5
1968							11	8	10	8	5	36	22	26	27	29	26	31	28	26	15	17	8	16	6	4	4	2	1							86103.1
1969							7	19	6	12	7	5	3	20	12	8	25	59	41	32	23	22	28	13	9	6	3	1	1				2	1		142271.7
1970							8	11	25	16	11	9	8	16	26	31	18	26	58	31	23	10	10	5	9	4	1	2	2	2	1	1	1			66825.3
1971							6	25	39	18	23	8	26	56	53	34	17	7	13	9	5	8	5	5	4	1				2	1					46895.2
1972							2	47	38	13	14	11	13	13	27	21	27	28	27	25	19	11	9	7	7	3	2	2								71198.4
1973								15	12	8	10	11	6	22	23	24	27	21	40	19	15	19	17	15	15	11	7	8	6			4	2			279736.9
1974								13	18	14	9	5	5	3	14	28	32	45	47	37	23	17	17	11	7	5	9	1	2		3					129683.6

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	3652	100.0	9	6.20	198	3255	89.1	18	110.0	309	1503	41.2	27	1800	39	108	2.9					
1	0.50	6	3652	100.0	10	8.60	126	3057	83.7	19	150.0	270	1194	32.7	28	2500	20	69	1.8					
2	0.70	3	3646	99.8	11	12.00	126	2931	80.3	20	200.0	242	924	25.3	29	3400	19	49	1.3					
3	0.90	9	3643	99.8	12	16.00	135	2805	76.6	21	280.0	148	682	18.7	30	4700	12	30	.8					
4	1.30	2	3634	99.5	13	22.00	142	2670	73.1	22	380.0	122	534	14.6	31	6500	6	18	.4					
5	1.80	27	3632	99.5	14	30.00	211	2528	69.2	23	520.0	113	412	11.3	32	8900	8	12	.3					
6	2.40	48	3605	98.7	15	41.00	255	2317	63.4	24	710.0	84	299	8.2	33	12000	3	4	.1					
7	3.30	82	3557	97.4	16	57.00	265	2062	56.5	25	970.0	61	215	5.9	34	17000	1	1	.0					
8	4.60	220	3475	95.2	17	78.00	294	1797	49.2	26	1300.0	46	154	4.2										

## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## CANADIAN RIVER NEAR NOBLE, OKLAHOMA

YEAR	1		3		7		14		30		60		90		120		183		ANNUAL	
1966	0.50	1	0.50	1	0.60	1	3.30	4	16.90	8	62.00	8	112.00	7	138.00	7	165.00	7	389.00	7
1967	0.78	2	0.83	2	1.01	2	1.47	1	3.14	1	4.96	1	9.26	2	13.80	1	18.10	1	57.60	1
1968	1.90	4	2.13	4	2.33	4	2.73	3	8.61	5	24.30	6	35.90	5	36.00	3	41.70	2	198.00	3
1969	3.50	5	3.63	5	3.81	5	4.44	5	47.40	9	112.00	9	139.00	9	147.00	8	168.00	8	319.00	6
1970	4.00	6	4.33	6	4.56	7	4.86	7	9.01	6	16.10	5	49.70	6	48.80	4	52.30	3	284.00	5
1971	1.80	3	1.90	3	2.19	3	2.20	2	3.18	2	5.96	2	10.00	3	57.20	5	109.00	5	195.00	2
1972	4.20	7	4.37	7	4.49	6	4.74	6	6.48	4	11.80	4	24.10	4	63.30	6	148.00	6	233.00	4
1973	4.60	8	4.90	8	5.00	8	5.04	8	5.67	3	8.17	3	7.93	1	22.50	2	64.30	4	411.00	8
1974	7.30	9	7.50	9	7.81	9	11.00	9	13.80	7	39.60	7	118.00	8	182.00	9	223.00	9	564.00	9

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## CANADIAN RIVER NEAR NOBLE, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL										
1965	20000.0	1	11200.0	3	5150.0	3	2480.0	3	1580.0	3	1060.0	3	776.0	3	747.0	3	612.0	3	401.0	2
1966	2240.0	10	1720.0	10	891.0	10	479.0	10	364.0	10	211.0	10	210.0	10	176.0	10	164.0	10	130.0	9
1967	7130.0	6	4240.0	4	2070.0	5	1210.0	6	766.0	8	422.0	8	494.0	7	388.0	7	268.0	8	143.0	8
1968	5320.0	7	2580.0	9	1570.0	9	1110.0	8	990.0	4	683.0	5	532.0	5	474.0	5	389.0	5	235.0	5
1969	15100.0	3	11800.0	1	6580.0	1	3610.0	2	2140.0	2	1280.0	2	1040.0	2	892.0	2	654.0	2	390.0	3
1970	8120.0	4	4160.0	6	1930.0	6	1200.0	7	779.0	7	544.0	7	432.0	8	347.0	8	282.0	7	183.0	7
1971	5160.0	8	2970.0	8	1810.0	8	1360.0	5	724.0	9	381.0	9	261.0	9	240.0	9	183.0	9	128.0	10
1972	4240.0	9	3320.0	7	1930.0	7	1080.0	9	979.0	5	678.0	6	522.0	6	436.0	6	319.0	6	195.0	6
1973	16700.0	2	11200.0	2	6100.0	2	4210.0	1	3700.0	1	2680.0	1	2190.0	1	1770.0	1	1320.0	1	766.0	1
1974	7960.0	5	4210.0	5	2630.0	4	1580.0	4	954.0	6	902.0	4	717.0	4	647.0	4	477.0	4	355.0	4

## ARKANSAS RIVER BASIN

185

07229300 WALNUT CREEK AT PURCELL, OKLA.

LOCATION.--Lat 34°59'56", long 97°22'00", in NW 1/4 NW 1/4 sec.13, T.6 N., R.2 W., McClain County, on downstream side of right bank pier of bridge on U.S. Highway 77, at south edge of Purcell, and at mile 1.0 (1.6 km).

DRAINAGE AREA.--202 mi<sup>2</sup> (523 km<sup>2</sup>).

PERIOD OF RECORD.--October 1965 to September 1974.

AVERAGE DISCHARGE.--9 years (1966-74), 47.7 ft<sup>3</sup>/s (1.35 m<sup>3</sup>/s).

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

WALNUT CREEK AT PURCELL, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS	
1966	27					6	4	8	8	14	11	15	34	89	57	44	10	10	8	3	4	4	3	1	1	2	2								6315.3	
1967	24	1		1		3	10	5	14	17	19	32	45	55	51	18	19	12	12	8	4	5	2	2	2	1	2				1				7451.8	
1968								1	2	1	2	3	13	32	65	41	48	60	22	15	17	13	9	7	3	5	2	3	2						14556.8	
1969													14	24	17	44	40	61	39	68	23	7	9	6	7	3	1					1	1		24142.9	
1970								3	17	7	22	13	13	14	5	2	28	155	51	16	5	4	2	1	1	1	1	1	1	1			1		16310.9	
1971										1	17	18	17	15	5	5	32	129	57	38	11	5	4	4	3	2				1				1		13421.5
1972						1	1	18	23	20	2	4	2	5	9	15	15	31	115	77	14	4	3	2	2	1	1								7123.2	
1973														3	17	5	8	37	47	72	44	38	43	17	8	9	4	1	5	2	4	1			45140.4	
1974															18	11	9	21	29	17	45	134	47	18	6	2	2	1	3	2					22010.5	

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	51	3287	100.0	9	0.50	36	3098	94.3	18	18.0	354	1290	39.2	27	610	13	39	1.1
1	0.01	1	3236	98.4	10	0.70	78	3062	93.2	19	26.0	255	936	28.5	28	910	10	26	.7
2	0.02	0	3245	98.4	11	1.10	79	2984	90.8	20	39.0	290	681	20.7	29	1300	6	16	.4
3	0.03	1	3235	98.4	12	1.60	108	2905	88.4	21	57.0	142	391	11.9	30	2000	6	10	.3
4	0.04	1	3234	98.4	13	2.40	194	2797	85.1	22	85.0	91	249	7.6	31	3000	2	4	.1
5	0.07	4	3233	98.4	14	3.60	282	2603	79.2	23	130.0	51	158	4.8	32	4400	2	2	.0
6	0.10	34	3229	98.2	15	5.40	169	2321	70.6	24	190.0	27	107	3.3	33				
7	0.20	36	3195	97.2	16	8.00	275	2152	65.5	25	280.0	29	60	2.4	34				
8	0.30	61	3159	96.1	17	12.00	587	1877	57.1	26	410.0	12	51	1.6					

## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

WALNUT CREEK AT PURCELL, OKLAHOMA

YEAR	1		3		7		14		30		60		90		120		183		ANNUAL
1967	0.00	1	0.00	1	0.00	1	0.06	1	0.46	2	1.29	3	2.24	2	2.62	1	2.35	1	14.90
1968	0.00	2	0.00	2	0.00	2	0.23	3	0.85	4	1.71	4	3.95	3	5.71	3	5.87	2	25.40
1969	2.10	6	2.17	6	2.51	6	2.79	6	14.20	7	21.30	7	26.20	7	28.30	7	28.50	6	57.10
1970	2.80	7	2.97	7	3.13	7	3.82	7	8.03	6	13.20	6	13.90	6	14.30	5	15.40	4	50.30
1971	0.26	4	0.26	4	0.31	4	0.35	4	0.64	3	1.21	2	7.30	5	17.90	6	34.70	7	54.30
1972	0.69	5	0.70	5	0.76	5	0.78	5	2.18	5	2.61	5	5.03	4	13.20	4	17.90	5	32.70
1973	0.04	3	0.08	3	0.14	3	0.19	2	0.23	1	0.67	1	1.04	1	3.23	2	8.88	3	49.20
1974	11.00	8	11.00	8	11.30	8	12.20	8	17.30	8	24.50	8	46.90	8	60.10	8	80.70	8	121.00

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

WALNUT CREEK AT PURCELL, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL										
1966	880.0	9	405.0	9	250.0	8	123.0	8	70.3	8	40.8	8	35.5	9	33.0	8	27.2	8	17.3	9
1967	2930.0	5	1210.0	5	620.0	5	344.0	5	187.0	6	103.0	7	72.1	7	55.0	7	38.0	7	20.4	7
1968	1110.0	8	597.0	7	285.0	7	258.0	7	169.0	7	135.0	5	110.0	4	90.9	5	68.0	5	39.8	5
1969	3800.0	3	1790.0	3	822.0	3	434.0	3	254.0	3	201.0	2	160.0	2	137.0	2	105.0	2	66.1	2
1970	6660.0	1	2950.0	1	1290.0	1	608.0	2	305.0	2	162.0	3	108.0	5	93.2	4	73.6	4	44.7	4
1971	4410.0	2	1560.0	4	735.0	4	364.0	4	191.0	5	103.0	6	73.2	6	59.5	6	45.1	6	36.8	6
1972	1350.0	7	472.0	8	212.0	9	106.0	9	61.2	9	36.2	9	36.6	8	32.4	9	26.8	9	19.5	8
1973	3210.0	4	1800.0	2	1210.0	2	840.0	1	516.0	1	320.0	1	286.0	1	244.0	1	174.0	1	124.0	1
1974	1820.0	6	803.0	6	485.0	6	317.0	6	202.0	4	136.0	4	111.0	3	94.8	3	89.8	3	60.3	3

## ARKANSAS RIVER BASIN

07230000 LITTLE RIVER BELOW LAKE THUNDERBIRD, NEAR NORMAN, OKLA.

LOCATION.--Lat 35°13'14", long 97°13'00", in NE 1/4 SE 1/4 sec.29, T.9 N., R.1 E., Cleveland County, at right bank of outlet channel, 170 ft (51.8 m) upstream from State Highway 9, 1,200 ft (365.8 m) downstream from Lake Thunderbird, 1.0 mi (1.6 km) upstream from Prairie Creek, 13.0 mi (20.9 km) east of Norman, and at mile 96.2 (154.8 km).

DRAINAGE AREA.--257 mi<sup>2</sup> (666 km<sup>2</sup>).

PERIOD OF RECORD.--October 1952 to September 1974. Statistical summaries for this station are divided into unregulated and regulated periods.

AVERAGE DISCHARGE.--13 years (1952-64), 58.9 ft<sup>3</sup>/s (1.668 m<sup>3</sup>/s); 10 years (1965-74), 12.8 ft<sup>3</sup>/s (0.362 m<sup>3</sup>/s).

REMARKS.--Flow completely regulated by Lake Thunderbird since March 1965.

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

LITTLE RIVER BELOW LAKE THUNDERBIRD NEAR NORMAN, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS	
1953				5	5	23	35	11	7	8109	18	46	27	11	9	15	6	3	7	2	2	6	4	2	1	1	1	1								8774.8
1954		40	1	5	42			2	10	7	4	6	28135	20	20	15	3	4	4	4	4	1	1	1	1	4	2	2								9532.3
1955	12	4	6	11	47	24	18	43	51	42	28	26	9	6	3	5	3	2	4	6	1	1	1	1	5	1	1	1		1					13111.8	
1956	65	6	5	7	8	3	2	7	17	41	69	75	27	8	8	1	2	2	1	1	1	2	1	4											9957.5	
1957	27	8	2	4	17	9	6	14	74	27	17	16	13	13	16	11	8	8	8	11	8	11	8	7	3	2	3	3	4	1	3	1	2		72925.5	
1958										6	8	9	9	8	35	61	90	33	32	29	12	15	3	5	3	3	1	1							23147.2	
1959										1	11	25	57107	45	29	22	11	9	13	5	7	8	3	2	3	4			2						18248.1	
1960															23	21	22	44	41	72	61	19	23	11	6	5	4	3	2	1	3	3	1	1		53974.7
1961											6	3	11	40	20	51	66	69	39	22	10	9	5	6	5										17889.0	
1962											9	6	13	23	29	24	38	50	60	50	20	8	14	4	1	10	3	1								21252.2
1963											13	26	26	15	7	11	13	71	63	75	11	11	9	7	2	1										5143.5
1964											27	46	13	19	14	26	39	58	26	18	26	10	11	6	12	3	3									4333.3
1965											41	61	56	33	9																					1622.7

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	108	4748	100.0	9	2.30	291	3354	70.6	18	51.0	175	574	12.1	27	1200	7	38	.8					
1	0.10	231	4640	97.7	10	3.20	220	3063	64.5	19	73.0	78	399	8.4	28	1600	13	31	.6					
2	0.20	221	4409	92.9	11	4.50	388	2843	59.9	20	100.0	94	321	6.8	29	2300	7	18	.3					
3	0.30	78	4188	88.2	12	6.40	491	2455	51.7	21	150.0	54	227	4.8	30	3300	6	11	.2					
4	0.40	178	4110	86.6	13	9.10	290	1964	41.4	22	210.0	37	173	3.6	31	4700	2	5	.1					
5	0.60	111	3932	82.8	14	13.00	276	1674	35.3	23	290.0	37	136	2.9	32	6600	1	3	.0					
6	0.80	93	3821	80.5	15	18.00	343	1398	29.4	24	410.0	32	99	2.1	33	9300	2	2	.0					
7	1.10	135	3728	78.5	16	26.00	249	1055	22.2	25	580.0	16	67	1.4	34									
8	1.60	239	3593	75.7	17	36.00	232	806	17.0	26	820.0	13	51	1.1										

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

LITTLE RIVER BELOW LAKE THUNDERBIRD NEAR NORMAN, OKLAHOMA

YEAR	1		3		7		14		30		60		90		120		183		ANNUAL	
1954	0.20	6	0.20	6	0.23	6	0.40	6	1.16	5	7.92	8	8.03	7	11.20	8	23.50	7	33.60	5
1955	0.00	1	0.00	1	0.10	4	0.10	3	0.10	2	0.39	3	0.42	3	0.83	3	0.84	1	14.90	4
1956	0.00	2	0.00	2	0.03	2	0.18	5	1.27	6	3.76	5	3.92	5	4.37	5	44.40	10	56.60	9
1957	0.00	3	0.00	3	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.36	2	1.36	2	6.14	1
1958	1.90	9	2.20	9	2.49	9	3.41	9	5.37	9	9.38	9	22.20	10	26.80	10	33.90	9	217.00	12
1959	1.70	7	1.77	7	1.90	7	2.50	8	3.46	7	5.90	6	6.22	6	6.30	6	6.82	5	48.40	7
1960	2.20	10	2.60	10	3.00	11	3.94	10	20.20	12	32.70	12	53.90	12	68.30	12	92.30	12	105.00	10
1961	6.50	12	6.80	12	7.04	12	7.21	12	8.05	10	16.90	10	19.20	9	24.30	9	28.60	8	109.00	11
1962	2.60	11	2.60	11	2.80	10	4.38	11	8.93	11	25.50	11	28.90	11	41.30	11	52.00	11	55.70	8
1963	1.70	8	1.93	8	2.30	8	2.34	7	3.70	8	6.07	7	8.76	8	8.85	7	9.68	6	37.30	6
1964	0.10	5	0.10	5	0.10	5	0.15	4	0.29	4	0.77	4	0.74	4	0.93	4	1.42	3	10.70	2
1965	0.00	4	0.03	4	0.07	3	0.10	2	0.13	3	0.18	2	0.33	2	0.30	1	3.34	4	14.30	3

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

LITTLE RIVER BELOW LAKE THUNDERBIRD NEAR NORMAN, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1953	1510.0 10	714.0 10	326.0 11	189.0 9	119.0 9	85.2 8	62.9 9	57.1 9	45.3 8	24.0 10
1954	1000.0 12	697.0 11	335.0 10	230.0 8	148.0 8	79.3 10	56.6 10	44.5 10	34.1 10	26.1 9
1955	4000.0 3	2190.0 4	1000.0 5	543.0 5	287.0 5	165.0 5	111.0 6	84.9 6	68.9 6	35.9 7
1956	2410.0 7	2190.0 5	1040.0 4	489.0 6	246.0 7	125.0 7	84.8 7	64.7 8	44.4 9	27.2 8
1957	16700.0 1	7360.0 1	3270.0 1	2180.0 1	1460.0 1	989.0 1	734.0 1	555.0 1	396.0 1	200.0 1
1958	3650.0 4	2620.0 3	1300.0 3	659.0 3	347.0 3	207.0 3	168.0 3	147.0 3	106.0 3	63.4 3
1959	2810.0 6	1140.0 7	583.0 7	347.0 7	279.0 6	168.0 4	135.0 4	116.0 4	92.3 4	50.0 5
1960	7380.0 2	3160.0 2	1480.0 2	845.0 2	578.0 2	355.0 2	302.0 2	257.0 2	201.0 2	147.0 2
1961	1750.0 9	764.0 9	357.0 9	183.0 11	103.0 10	84.6 9	69.9 8	69.9 7	64.7 7	49.0 6
1962	2970.0 5	1210.0 6	628.0 6	546.0 4	297.0 4	164.0 6	119.0 5	96.9 5	78.8 5	58.2 4
1963	1100.0 11	685.0 12	325.0 12	162.0 12	87.0 12	52.1 11	38.4 11	30.8 11	24.1 11	14.1 11
1964	2110.0 8	878.0 8	395.0 8	188.0 10	96.5 11	52.1 12	36.9 12	30.0 12	21.5 12	11.8 12
1965	329.0 13	292.0 13	202.0 13	103.0 13	51.6 13	26.1 13	17.5 13	13.1 13	8.7 13	4.4 13

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

LITTLE RIVER BELOW LAKE THUNDERBIRD, NEAR NORMAN, OKLAHOMA

CLASS 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34

YEAR	NUMBER OF DAYS IN CLASS																				CFS_DAYS												
1966	68272	4	5	6	4	2	1	1	1	1																							79.3
1967	315 28	7	4		4	4		2																									79.9
1968	198	45	77	46																													118.1
1969		182	91	31	61																												149.1
1970		259	75	31																													133.2
1971	62303																																148.9
1972		30336																															181.5
1973		83	20154	3	11			2					1			1					1	1			7	16	2	5	18	16	7	17	26691.2
1974		15	55	78129	8		1	1	1	1											1	1	2	14	2	19	7	12	10	1	5	2	17454.9

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	3287	100.0	9	1.40	4	179	5.4	18	16.0	0	166	5.1	27	180	12	100	3.0	27	180	12	100	3.0
1	0.10	383	3287	100.0	10	1.90	4	175	5.3	19	21.0	0	166	5.1	28	230	30	88	2.6	28	230	30	88	2.6
2	0.20	498	2904	88.3	11	2.50	2	171	5.2	20	27.0	1	166	5.1	29	300	26	58	1.7	29	300	26	58	1.7
3	0.30	657	2406	73.2	12	3.20	1	169	5.1	21	36.0	2	165	5.0	30	390	8	32	.9	30	390	8	32	.9
4	0.40	660	1749	53.2	13	4.20	1	168	5.1	22	47.0	1	163	5.0	31	520	22	24	.7	31	520	22	24	.7
5	0.50	682	1089	33.1	14	5.50	0	167	5.1	23	61.0	2	162	4.9	32	670	2	2	.0	32	670	2	2	.0
6	0.60	201	407	12.4	15	7.20	0	167	5.1	24	79.0	21	160	4.9	33					33				
7	0.80	25	206	6.3	16	9.40	1	167	5.1	25	100.0	18	139	4.2	34					34				
8	1.10	2	181	5.5	17	12.00	0	166	5.1	26	140.0	21	121	3.7										

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

LITTLE RIVER BELOW LAKE THUNDERBIRD, NEAR NORMAN, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1966	0.10 1	0.10 1	0.10 1	0.10 1	0.11 1	0.13 1	0.14 1	0.15 1	0.17 1	0.18 1
1967	0.10 2	0.10 2	0.13 2	0.15 2	0.18 2	0.18 2	0.18 2	0.18 2	0.18 2	0.22 2
1968	0.18 3	0.18 3	0.18 3	0.18 3	0.19 3	0.20 3	0.21 3	0.22 3	0.22 3	0.25 3
1969	0.25 4	0.25 4	0.25 4	0.25 4	0.30 4	0.30 4	0.30 4	0.30 4	0.32 4	0.36 4
1970	0.30 5	0.30 5	0.30 5	0.30 5	0.30 5	0.30 5	0.32 5	0.33 5	0.37 6	0.43 6
1971	0.35 6	0.35 6	0.35 6	0.35 6	0.35 6	0.35 6	0.36 6	0.37 6	0.36 5	0.39 5
1972	0.35 7	0.35 7	0.35 7	0.35 7	0.35 7	0.35 7	0.37 7	0.37 7	0.40 7	0.45 7
1973	0.45 9	0.45 9	0.45 9	0.45 9	0.45 9	0.46 9	0.47 8	0.48 8	0.49 8	0.98 8
1974	0.35 8	0.35 8	0.35 8	0.35 8	0.35 8	0.35 8	5.02 9	29.90 9	52.60 9	99.60 9

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

LITTLE RIVER BELOW LAKE THUNDERBIRD, NEAR NORMAN, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1966	2.8 4	1.1 4	0.6 5	0.5 8	0.4 8	0.3 8	0.3 8	0.3 8	0.3 8	0.2 8
1967	4.0 3	1.9 3	1.0 3	0.6 3	0.4 9	0.3 9	0.3 9	0.3 9	0.3 9	0.2 9
1968	0.5 9	0.5 9	0.5 6	0.5 9	0.5 7	0.5 7	0.5 6	0.5 3	0.4 5	0.3 7
1969	0.6 5	0.6 5	0.6 4	0.6 4	0.6 3	0.6 3	0.6 3	0.5 4	0.5 3	0.4 4
1970	0.5 6	0.5 6	0.5 7	0.5 5	0.5 4	0.5 4	0.4 7	0.4 7	0.4 6	0.4 5
1971	0.5 7	0.5 7	0.5 8	0.5 6	0.5 5	0.5 5	0.5 4	0.5 5	0.4 7	0.4 6
1972	0.5 8	0.5 8	0.5 9	0.5 7	0.5 6	0.5 6	0.5 5	0.5 6	0.5 4	0.5 3
1973	595.0 2	588.0 2	559.0 1	462.0 1	327.0 1	292.0 1	253.0 1	220.0 1	145.0 1	73.1 1
1974	754.0 1	640.0 1	554.0 2	400.0 2	200.0 2	143.0 2	105.0 2	78.9 2	76.2 2	47.8 2



## ARKANSAS RIVER BASIN

07230500 LITTLE RIVER NEAR TECUMSEH, OKLA.

LOCATION.--Lat 35°10'25", long 96°55'55", near northwest corner sec.18, T.8 N., R.4 E., Pottawatomie County, on downstream side of center pier of bridge on U.S. Highway 177, 1.5 mi (2.4 km) downstream from Dance Creek, 5.0 mi (8.0 km) south of Tecumseh, and at mile 77.2 (124.2 km).

DRAINAGE AREA.--456 mi<sup>2</sup> (1,181 km<sup>2</sup>).

PERIOD OF RECORD.--October 1943 to September 1974. Statistical summaries for this station are divided into unregulated and regulated periods.

AVERAGE DISCHARGE.--22 years (1944-65). 145 ft<sup>3</sup>/s (4.11 m<sup>3</sup>/s); 9 years (1966-74), 80.3 ft<sup>3</sup>/s (0.028 m<sup>3</sup>/s).

REMARKS.--Flow regulated or diverted since 1965 by Lake Thunderbird, 19.2 mi (30.9 km) upstream.

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

LITTLE RIVER NEAR TECUMSEH, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS	
1944					5	5	10		5	12	10	41	42	9	42	64	21	47	7	3	4	6	16	3	3	1	1	2							33453.5	
1945									1	6	9	8	22	20	56	35	27	34	17	28	22	23	12	9	9	6	5	6	3	4		2	1			164045.7
1946												3	9	24	15	13	7	50	75	49	44	28	19	4	3	10	5		2	4	1				83335.8	
1947												15	24	31	11	46	80	45	26	9	13	14	16	5	8	6	5	3	4	2	3	1			94876.4	
1948												31	21	27	36	77	43	38	21	9	16	17	7	7	4	4	1	2	1	1	2		1		62633.6	
1949											4	14	46	50	36	21	26	44	26	24	17	20	3	10	11	5	2	2		2		1		1	90810.9	
1950												8	7	40	112	77	38	21	12	16	8	7	6	3	2	2	2	2	2	1		1			54784.7	
1951								1	7	2	7	13	14	9	14	44	75	53	45	30	11	10	10	5	3	2	3	4	1	1	1				36393.1	
1952	18	2	10			3	3	4	4	16	27	21	5	26	91	23	43	22	15	8	7	8	2	2	2	2	1		1						18352.0	
1953	25	1	4	4	5	8	12	14	14	26	86	29	25	25	18	13	12	9	11	6	7	4	3	2	1		1								13950.3	
1954	77	2	1		1	2	3	2	9	8	7	10	36	86	44	19	14	13	4	7	4	2	3	3	2	2	2	3		1					27015.6	
1955	40	8	6	3	11	13	20	29	21	37	49	24	19	21	8	10	10	4	7	7	6	2	3	1	3	1			1	1					23040.2	
1956	88	2	2		1	2	3	5	7	24	74	71	30	19	12	6	4	3	2	3	2	1	2				2	1							12973.1	
1957	51	1	1	1	3	5	14	31	19	41	21	13	14	17	16	11	12	14	12	15	9	6	4	6	4	6	5	2	6	2	2		1		127493.3	
1958										6	7	13	8	16	34	29	64	56	39	23	31	14	10	4	3	2	3	1	1		1				43423.9	
1959										4	19	39	51	68	42	36	23	17	18	8	6	10	5	5	3	4	5	1	1						31437.7	
1960												2	10	23	15	24	66	63	54	33	20	17	8	8	3	5	3	4	3	4	1				111931.0	
1961												1	11	42	40	48	85	51	23	21	12	14	4	5	3	3	1	1							40617.7	
1962											1	13	10	2	14	11	19	47	70	49	50	23	18	9	13	6	5		3		1	1			37924.7	
1963	32	6	3	6	8	8	6	8	7	6	14	52	47	52	62	14	12	6	3	6	4	1					1	1							10439.2	
1964	63	1	3	3	4	3	19	13	28	58	36	26	23	17	16	7	10	3	5	9	7	3	2	3	1	1			1	1					20911.9	
1965	46	2	3	4	7	9	11	15	9	5	10	23	38	71	37	13	10	10	7	7	5	8	7	3	3	1			1						22847.9	

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	440	8036	100.0	9	2.90	301	6999	87.1	18	88.0	329	1519	18.9	27	2500	29	89	1.1
1	0.10	25	7596	94.5	10	4.20	497	6698	83.3	19	120.0	324	1190	14.8	28	3700	26	60	.7
2	0.20	33	7571	94.2	11	6.20	496	6201	77.2	20	180.0	242	866	10.8	29	5400	22	34	.4
3	0.30	21	7538	93.8	12	9.00	558	5705	71.0	21	260.0	184	624	7.8	30	7800	4	12	.1
4	0.40	48	7517	93.5	13	13.00	803	5147	64.0	22	390.0	103	440	5.5	31	11000	5	8	.0
5	0.60	59	7469	92.9	14	19.00	867	4344	54.1	23	560.0	87	337	4.2	32	17000	1	3	.0
6	0.90	109	7410	92.2	15	28.00	707	3477	43.3	24	820.0	68	250	3.1	33	24000	2	2	.0
7	1.40	129	7301	90.9	16	40.00	713	2770	34.5	25	1200.0	58	182	2.3	34				
8	2.00	173	7172	89.2	17	59.00	538	2057	25.6	26	1700.0	35	124	1.5					

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## LITTLE RIVER NEAR TECUMSEH, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1945	0.40 8	0.47 8	0.54 8	1.16 8	4.62 10	7.67 9	15.10 10	40.70 16	61.10 15	184.00 15
1946	9.10 21	9.40 20	10.00 20	11.20 19	14.30 16	47.70 20	70.30 20	112.00 20	276.00 21	449.00 21
1947	4.30 15	4.70 16	7.83 17	8.34 17	9.65 14	17.20 14	28.30 16	28.80 15	62.10 16	147.00 12
1948	4.40 16	4.40 15	5.37 15	5.54 14	6.33 13	9.77 10	12.90 8	16.90 9	20.40 7	263.00 19
1949	3.40 14	3.53 14	4.00 14	4.26 12	4.69 11	5.93 7	7.24 6	8.73 7	22.80 8	182.00 14
1950	6.90 17	7.00 17	7.07 16	8.17 16	10.70 15	17.80 15	18.80 14	24.00 12	24.50 10	221.00 18
1951	9.00 20	9.50 21	11.80 21	15.00 21	16.50 19	19.40 16	20.90 15	23.40 11	41.40 12	152.00 13
1952	0.80 9	1.07 9	1.11 9	2.17 9	3.17 7	12.50 13	13.70 9	14.80 8	16.60 6	91.50 10
1953	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.22 3	0.82 4	2.25 4	3.67 4	43.70 4
1954	0.00 2	0.00 2	0.00 2	0.00 2	1.45 6	11.40 11	16.60 11	27.50 14	50.40 13	67.20 5
1955	0.00 3	0.00 3	0.00 3	0.00 3	0.00 1	0.04 2	0.25 2	0.51 1	0.91 1	43.20 3
1956	0.00 4	0.00 4	0.00 4	0.17 7	3.68 8	5.16 6	5.53 5	6.80 5	55.50 14	86.10 8
1957	0.00 5	0.00 5	0.00 5	0.00 4	0.00 2	0.00 1	0.00 1	0.68 2	1.99 2	10.10 1
1958	2.90 13	2.90 12	3.50 13	5.27 13	14.50 18	21.00 17	51.10 19	64.50 18	78.90 19	391.00 20
1959	2.00 11	2.33 11	2.50 11	3.92 11	4.91 12	6.45 8	7.43 7	8.41 6	9.85 5	80.50 7
1960	2.70 12	3.00 13	3.43 12	6.54 15	24.90 21	96.60 21	104.00 21	150.00 21	160.00 20	211.00 16
1961	8.00 18	8.33 18	9.57 19	12.90 20	19.90 20	44.00 19	42.70 17	57.10 17	66.40 17	219.00 17
1962	8.20 19	8.73 19	9.10 18	10.90 18	14.40 17	37.70 18	46.50 18	67.70 19	78.40 18	106.00 11
1963	1.80 10	2.20 10	2.26 10	2.39 10	4.24 9	11.40 12	17.50 12	22.10 10	22.90 9	76.30 6
1964	0.00 6	0.00 6	0.00 6	0.00 5	0.11 5	0.34 4	0.27 3	0.96 3	2.25 3	20.60 2
1965	0.00 7	0.00 7	0.00 7	0.00 6	0.00 3	1.48 5	18.40 13	25.60 13	32.60 11	69.30 9

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## LITTLE RIVER NEAR TECUMSEH, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1944	6120.0 9	2860.0 12	1940.0 8	960.0 11	618.0 9	367.0 10	306.0 9	247.0 10	172.0 11	91.4 13
1945	18200.0 3	11300.0 2	5070.0 3	2490.0 3	1480.0 3	1120.0 3	995.0 2	892.0 2	689.0 2	449.0 1
1946	6740.0 8	3400.0 10	1730.0 10	1200.0 8	740.0 8	546.0 7	426.0 8	409.0 7	356.0 6	228.0 6
1947	7840.0 7	4240.0 7	2570.0 7	1640.0 5	1290.0 4	1070.0 4	861.0 3	685.0 3	461.0 4	260.0 4
1948	12200.0 5	7300.0 4	4270.0 4	2100.0 4	1140.0 5	700.0 5	521.0 6	414.0 6	321.0 7	171.0 7
1949	24400.0 1	12400.0 1	5510.0 1	2860.0 2	2090.0 2	1130.0 2	802.0 4	653.0 4	482.0 3	249.0 5
1950	13300.0 4	6820.0 5	3080.0 5	1490.0 6	862.0 7	462.0 8	467.0 7	363.0 8	262.0 8	150.0 8
1951	3990.0 14	2310.0 15	1370.0 13	826.0 13	609.0 10	420.0 9	246.0 10	245.0 11	178.0 10	99.7 12
1952	2680.0 19	1320.0 20	601.0 18	516.0 18	278.0 19	193.0 17	148.0 18	121.0 18	88.9 18	50.1 19
1953	1930.0 22	727.0 22	408.0 22	242.0 22	142.0 22	103.0 21	74.0 22	61.0 20	70.9 20	38.2 20
1954	3720.0 16	2370.0 14	1090.0 16	765.0 14	435.0 14	230.0 16	168.0 17	130.0 17	99.2 17	74.0 15
1955	6050.0 10	3850.0 8	1730.0 11	993.0 9	523.0 11	289.0 13	197.0 14	152.0 15	117.0 15	63.1 16
1956	3670.0 17	2670.0 13	1250.0 14	591.0 16	298.0 18	151.0 20	103.0 20	79.3 21	55.5 21	35.4 21
1957	24100.0 2	11000.0 3	5090.0 2	3630.0 1	2390.0 1	1660.0 1	1230.0 1	931.0 1	692.0 1	349.0 2
1958	5890.0 11	3560.0 9	1900.0 9	972.0 10	505.0 13	329.0 11	284.0 11	252.0 9	185.0 9	119.0 9
1959	3390.0 18	1420.0 19	673.0 20	384.0 20	346.0 16	236.0 15	218.0 13	193.0 12	160.0 12	86.1 14
1960	7990.0 6	5810.0 6	2970.0 6	1450.0 7	1090.0 6	654.0 6	561.0 5	480.0 5	363.0 5	306.0 3
1961	2660.0 20	1500.0 18	699.0 19	391.0 19	236.0 20	189.0 18	172.0 16	176.0 14	147.0 13	111.0 10
1962	3750.0 15	1720.0 17	1000.0 17	912.0 12	507.0 12	316.0 12	233.0 12	189.0 13	147.0 14	104.0 11
1963	2080.0 21	1280.0 21	605.0 21	302.0 21	161.0 21	99.9 22	74.3 21	59.6 22	49.0 22	28.6 22
1964	5720.0 12	3200.0 11	1530.0 12	759.0 15	411.0 15	261.0 14	187.0 15	142.0 16	106.0 16	57.1 18
1965	4010.0 13	2170.0 16	1090.0 15	553.0 17	318.0 17	168.0 19	129.0 19	104.0 19	88.8 19	62.6 17

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

## LITTLE RIVER NEAR TECUMSEH, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS
1966	36			1	1		3	5	3	6	18	37	73	87	25	14	6	15	5	2	4	6	6	4	4	1		2							9579.1
1967	30			1	1	2	9	8	12	4	28	29	76	84	22	18	7	4	7	6	3	4	2	3	3		1		1						7314.3
1968	4					1	1	3	2	6	6	22	53	35	20	36	36	29	17	19	16	15	13	13	6	3	4	2	2	1	1				25980.3
1969	4		1			1	1	2	5	6	14	18	11	8	9	22	31	52	35	44	36	15	16	8	6	8	3	1	2						25421.3
1970	51	2			1	3	5	5	2	4	5	9	15	44	40	50	42	21	11	13	9	5	7	5	5	1	3	1	3	1	1		1		28610.6
1971	32			1	1	4			6	5	2	9	8	7	14	24	27	25	72	39	30	15	14	6	5	6	5	5	1	1			1		24819.0
1972	72								1		1	5	6	14	44	46	76	42	14	14	8	4	3	3	3	6		3		1					9286.6
1973	20								2	2	1	2	9	9	10	12	17	24	40	32	20	6	7	11	23	26	46	24	10	7	3	1	1		92282.3
1974	4								3	2	4	18	4	14	6	14	17	8	33	38	40	42	26	16	31	22	12	6	1	2	1	1			40389.2

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	257	3287	100.0	9	0.60	34	2920	88.8	18	22.0	198	1045	31.8	27	840	19	52	1.5
1	0.01	2	3030	92.2	10	0.80	105	2886	87.8	19	32.0	182	847	25.8	28	1300	16	33	1.0
2	0.02	1	3024	92.1	11	1.30	142	2781	84.6	20	49.0	135	665	20.2	29	1900	10	17	.5
3	0.03	2	3027	92.1	12	1.90	272	2639	80.3	21	73.0	95	530	16.1	30	2800	4	7	.2
4	0.04	5	3025	92.0	13	2.80	332	2367	72.0	22	110.0	80	435	13.2	31	4300	2	3	.0
5	0.07	8	3020	91.9	14	4.30	212	2035	61.9	23	160.0	95	355	10.8	32	6400	1	1	.0
6	0.10	24	3012	91.6	15	6.40	277	1823	55.5	24	250.0	84	260	7.9	33				
7	0.20	35	2988	90.9	16	9.60	221	1546	47.0	25	370.0	76	176	5.4	34				
8	0.40	33	2953	89.8	17	14.00	280	1325	40.3	26	560.0	48	100	3.0					

## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## LITTLE RIVER NEAR TECUMSEH, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL	
1966	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.70 5	2.58 5	4.08 4	4.02 3	5.44 2	29.30 4
1967	0.00 2	0.00 2	0.00 2	0.00 2	0.00 1	1.78 3	2.21 2	2.37 1	2.53 1	25.10 1	
1968	0.00 3	0.00 3	0.00 3	0.84 6	1.30 6	2.58 4	4.50 5	4.22 4	7.24 3	29.00 3	
1969	0.77 9	1.13 9	1.43 9	1.77 9	10.30 9	31.70 9	32.40 8	38.00 8	45.20 7	105.00 7	
1970	0.00 4	0.00 4	0.23 7	0.84 7	2.03 7	3.24 7	3.16 3	8.33 5	11.60 5	32.90 5	
1971	0.00 5	0.00 5	0.00 4	0.00 3	0.11 3	1.50 2	22.10 7	31.10 7	102.00 8	122.00 8	
1972	0.00 6	0.00 6	0.00 5	0.00 4	0.54 4	3.08 6	5.94 6	10.10 6	11.30 4	27.70 2	
1973	0.00 7	0.00 7	0.00 6	0.00 5	0.00 2	0.11 1	0.08 1	2.83 2	20.40 6	101.00 6	
1974	0.30 8	0.40 8	0.64 8	1.15 8	2.26 8	7.35 8	53.20 9	88.30 9	150.00 9	250.00 9	

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## LITTLE RIVER NEAR TECUMSEH, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL										
1966	2020.0	8	821.0	8	419.0	8	255.0	8	138.0	9	78.7	9	54.4	9	42.9	9	47.0	7	26.2	7
1967	2580.0	7	1270.0	6	580.0	6	299.0	7	166.0	7	95.3	7	65.9	7	51.1	7	37.6	9	20.0	9
1968	3300.0	4	1800.0	5	1000.0	5	609.0	5	433.0	4	280.0	3	206.0	3	168.0	3	124.0	4	71.0	4
1969	2730.0	6	1180.0	7	556.0	7	335.0	6	246.0	6	184.0	6	153.0	6	156.0	4	120.0	5	69.6	5
1970	7400.0	1	4440.0	1	2020.0	1	954.0	1	477.0	2	240.0	5	180.0	4	152.0	5	141.0	3	78.4	3
1971	6390.0	2	2940.0	2	1510.0	2	712.0	4	468.0	3	250.0	4	174.0	5	142.0	6	102.0	6	68.0	6
1972	1440.0	9	581.0	9	284.0	9	225.0	9	153.0	8	79.9	8	57.4	8	44.8	8	44.0	8	25.4	8
1973	4620.0	3	2890.0	3	1320.0	3	878.0	2	766.0	1	677.0	1	639.0	1	589.0	1	412.0	1	253.0	1
1974	2930.0	5	1870.0	4	1130.0	4	773.0	3	424.0	5	334.0	2	252.0	2	201.0	2	166.0	2	111.0	2

## 191

LOCATION.--Lat 35°02'48", long 96°40'06", in SE 1/4 sec.27, T.7 N., R.6 E., near right bank on downstream side of pier of bridge on State Highway 99, 2.5 mi (4.0 km) south of Dewright, 8.0 mi (12.9 km) northeast of Konawa, and at mil 7.3 (11.7 km).

AVERAGE DISCHARGE.--6 years (1960-63, 1966-67), 75.5 ft<sup>3</sup>/s (2.14 m<sup>3</sup>/s).

SALT CREEK NEAR DEWRIGHT, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34			
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS			
1960	11 36 18 13 53 63 55 35 22 12 12 9 2 6 5 5 4 3 2																																		80400.4			
1961	7 12 19 39 47 88 45 31 18 11 11 9 7 12 3 2 3 1																																		39435.1			
1962	28	1 4 7 7 8 6 11 11 9 23 76 64 40 22 10 10 7 8 8 2 2 1																																	18800.5			
1963	99	3 10 3 9 10 17 15 27 42 36 25 21 13 9 4 3 5 4 2 1 2 2 2 1																																	14342.6			
1966	225	8	4	3	6	1	12	13	2	8	5	7	2	7	9	8	10	6	6	4	5	5	3	3	1											3630.4		
1967	188	7	4	2	5	1	25	21	1	10	6	7	7	6	8	7	4	8	11	10	8	6	4	2		4	1	1		1								8938.4
CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT				
0	0.00	540	2191	100.0	9	0.50	34	1515	69.1	18	20.0	235	828	37.8	27	730	13	44	2.0																			
1	0.01	15	1651	75.4	10	0.80	28	1481	67.6	19	30.0	171	593	27.1	28	1100	11	31	1.4																			
2	0.02	8	1636	74.7	11	1.20	39	1453	66.3	20	44.0	125	422	19.3	29	1600	9	20	.9																			
3	0.03	5	1628	74.3	12	1.80	30	1414	64.5	21	66.0	77	297	13.6	30	2400	4	11	.5																			
4	0.04	11	1623	74.1	13	2.70	58	1384	63.2	22	98.0	55	220	10.0	31	3600	5	7	.3																			
5	0.07	2	1612	73.6	14	4.00	93	1326	60.5	23	150.0	37	165	7.5	32	5400	2	2	.0																			
6	0.10	41	1610	73.5	15	6.00	115	1233	56.3	24	220.0	34	128	5.8	33																							
7	0.20	48	1569	71.6	16	8.90	119	1118	51.0	25	330.0	29	44	4.3	34																							
8	0.40	6	1521	69.4	17	13.00	171	999	45.6	26	490.0	21	65	3.0																								

SALT CREEK NEAR DEWRIGHT, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1961	3.20 3	3.20 3	3.30 3	4.17 3	8.45 3	24.70 4	29.20 4	40.80 4	46.90 3	145.00 4
1962	4.50 4	5.03 4	6.06 4	7.74 4	14.90 4	21.00 3	27.80 3	40.40 3	47.60 4	86.60 3
1963	0.00 1	0.00 1	0.00 1	0.00 1	0.16 2	3.09 2	8.81 2	8.26 2	16.50 2	41.40 2
1967	0.00 2	0.00 2	0.00 2	0.00 2	0.00 1	0.00 1	0.00 1	0.00 1	0.28 1	10.00 1

SALT CREEK NEAR DEWRIGHT, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1960	595.0	1 4240.0	1 2660.0	1 1290.0	1 656.0	1 445.0	1 352.0	1 321.0	1 241.0	220.0
1961	392.0	3 2300.0	2 1150.0	2 627.0	2 340.0	2 258.0	2 210.0	2 189.0	2 164.0	2 108.0
1962	1200.0	5 621.0	5 408.0	5 297.0	5 168.0	5 141.0	4 106.0	4 88.6	4 71.9	3 51.5
1963	4450.0	2 2240.0	3 1130.0	3 557.0	3 294.0	3 180.0	3 125.0	3 95.2	3 71.4	3 39.3
1966	610.0	6 311.0	6 160.0	6 112.0	6 65.0	6 36.1	6 24.8	6 18.9	6 19.7	6 9.9
1967	2320.0	4 1490.0	4 761.0	4 396.0	4 226.0	4 133.0	5 89.3	5 67.2	5 48.7	5 24.5

## ARKANSAS RIVER BASIN

07231000 LITTLE RIVER NEAR SASAKWA, OKLA.

LOCATION.--Lat 34°59'02", long 96°33'01", in NE 1/4 sec.22, T.6 N., R.7 E., Seminole County, near left abutment on downstream side of county road bridge, 2.8 mi (4.5 km) northwest of Sasakwa, 8.7 mi (14.0 km) downstream from Salt Creek, and at mile 24.1 (38.8 km).

DRAINAGE AREA.--865 mi<sup>2</sup> (2,240 km<sup>2</sup>).

PERIOD OF RECORD.--September 1942 to September 1974. Statistical summaries for this station are divided into unregulated and regulated periods.

AVERAGE DISCHARGE.--23 years (1943-65), 398 ft<sup>3</sup>/s (11.3 m<sup>3</sup>/s); 9 years (1966-74), 270 ft<sup>3</sup>/s (7.65 m<sup>3</sup>/s).

REMARKS.--Flow regulated by Lake Thunderbird 72.3 mi (116.3 km) upstream since March 1965.

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

LITTLE RIVER NEAR SASAKWA, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS	
1943			1	1	2	7	6	9	11	12	6	3	5	13	29	25	72	51	28	21	14	8	14	6	7	3	7						2	1		167926.7
1944							1	1	2	7	27	27	33	29	34	52	37	22	23	12	14	8	14	5	7	3	5	1			2					80388.3
1945											1	27	19	28	46	38	26	19	25	20	20	16	18	11	15	15	10			4	4	1	1	1		403540.0
1946												4	8	13	13	14	9	14	64	35	39	44	26	18	15	13	9	8	9	6	3	1				224027.5
1947										8	8	12	24	17	10	32	73	32	31	15	15	14	16	8	5	6	12	10	9	6	2					248786.0
1948											3	22	18	18	45	45	49	35	32	10	20	16	12	6	15	3	8		4	1	1	2	1			188200.8
1949											14	8	16	47	47	30	18	14	39	23	21	16	14	13	13	9	9	5	2	3	1	1	2			232851.6
1950													9	4	80	78	51	33	18	17	18	9	13	10	1	7	3	8	2	2		2			227044.0	
1951																																				77054.8
1952																																				58515.5
1953																																				65009.0
1954																																				103423.2
1955																																				54043.2
1956																																				18368.7
1957																																				351988.7
1958																																				171712.0
1959																																				88540.1
1960																																				271009.0
1961																																				108148.0
1962																																				73445.0
1963																																				35706.3
1964																																				40513.2
1965																																				52064.5

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	220	8401	100.0	9	3.10	172	7763	92.4	18	99.0	681	2906	34.6	27	3100	102	257	3.0
1	0.10	36	8181	97.4	10	4.60	242	7591	90.4	19	150.0	400	2225	26.5	28	4600	74	155	1.8
2	0.20	26	8145	97.0	11	6.70	319	7349	87.5	20	210.0	437	1825	21.7	29	6800	43	81	.9
3	0.30	30	8119	96.6	12	9.90	386	7030	83.7	21	310.0	321	1388	16.5	30	10000	18	38	.4
4	0.50	25	8089	96.3	13	14.00	548	6644	79.1	22	460.0	243	1067	12.7	31	15000	12	20	.2
5	0.70	32	8064	96.0	14	21.00	687	6096	72.6	23	680.0	183	824	9.8	32	22000	7	8	.0
6	1.00	62	8032	95.6	15	31.00	835	5409	64.4	24	990.0	164	641	7.6	33	32000	1	1	.0
7	1.40	99	7970	94.9	16	46.00	859	4574	54.4	25	1500.0	106	477	5.7	34				
8	2.10	108	7871	93.7	17	67.00	809	3715	44.2	26	2100.0	114	371	4.4					

## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## LITTLE RIVER NEAR SASAKWA, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1944	0.40 8	0.67 7	0.89 7	1.13 6	2.49 6	13.10 8	15.20 7	16.40 6	19.50 5	350.00 11
1945	2.90 11	3.87 12	4.47 12	6.79 14	26.10 16	31.30 15	62.70 17	111.00 17	164.00 16	532.00 15
1946	16.00 20	16.00 19	18.00 19	20.40 19	28.60 17	84.50 19	118.00 20	265.00 21	602.00 22	1090.00 22
1947	3.70 12	3.83 11	4.17 11	5.71 11	8.38 10	21.50 11	43.70 13	49.40 13	172.00 17	390.00 13
1948	4.10 13	4.57 13	5.33 14	7.41 15	9.51 11	26.90 14	33.40 12	43.60 11	45.90 9	650.00 20
1949	4.60 14	4.73 14	4.93 13	5.61 10	7.39 9	10.30 6	13.00 6	16.70 7	40.60 8	577.00 17
1950	9.40 17	9.80 17	10.90 17	17.00 17	28.80 18	37.70 16	58.30 16	68.30 15	71.00 12	548.00 16
1951	22.00 22	22.30 22	23.90 22	33.90 21	44.20 20	47.50 17	50.40 15	53.20 14	128.00 14	630.00 19
1952	0.70 9	0.87 9	1.43 8	3.67 9	5.22 8	22.70 12	19.90 9	27.60 9	28.40 7	174.00 7
1953	0.00 1	0.00 1	0.14 5	0.17 4	0.45 4	0.67 3	1.46 3	4.99 4	9.11 3	145.00 3
1954	0.10 6	0.70 8	1.44 9	3.59 8	10.90 14	23.00 13	44.50 14	91.00 16	265.00 20	303.00 10
1955	0.00 2	0.00 2	0.00 1	0.00 1	0.35 3	1.91 4	2.54 4	2.96 3	4.57 2	160.00 5
1956	2.80 10	2.87 10	3.17 10	5.76 12	10.20 12	11.80 7	12.50 5	16.40 5	63.60 11	165.00 6
1957	0.00 3	0.00 3	0.00 2	0.00 2	0.00 1	0.00 1	0.15 2	2.47 2	11.20 4	34.40 1
1958	5.20 15	5.27 15	5.87 15	6.29 13	25.00 15	72.10 18	149.00 21	190.00 20	233.00 19	1080.00 21
1959	7.90 16	8.00 16	8.34 16	9.29 16	10.50 13	17.20 10	18.40 8	20.30 8	23.70 6	352.00 12
1960	19.00 21	19.70 21	20.70 20	26.90 20	86.50 22	185.00 22	350.00 22	336.00 22	458.00 21	613.00 18
1961	16.00 18	16.00 18	16.90 18	19.90 18	30.70 19	109.00 21	93.40 18	150.00 18	148.00 15	470.00 14
1962	16.00 19	17.70 20	21.30 21	34.40 22	73.20 21	85.80 20	108.00 19	156.00 19	175.00 18	276.00 9
1963	0.40 7	0.43 6	0.79 6	1.23 7	3.90 7	15.60 9	26.90 10	29.00 10	50.60 10	148.00 4
1964	0.00 4	0.00 4	0.00 3	0.00 3	0.00 2	0.00 2	0.00 1	0.35 1	1.29 1	63.90 2
1965	0.00 5	0.00 5	0.00 4	0.31 5	1.68 5	7.60 5	33.20 11	48.30 12	77.90 13	206.00 8

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## LITTLE RIVER NEAR SASAKWA, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1943	24800.0 5	20700.0 4	11100.0 5	6070.0 5	3220.0 6	1780.0 6	1270.0 7	970.0 9	710.0 10	460.0 10
1944	9040.0 14	7330.0 14	4610.0 13	2450.0 12	1550.0 12	926.0 11	702.0 11	575.0 11	408.0 13	220.0 14
1945	32500.0 1	25500.0 1	12500.0 3	6230.0 4	3920.0 4	3260.0 2	2400.0 2	2400.0 2	1870.0 2	1110.0 1
1946	14800.0 9	11000.0 9	5710.0 10	2860.0 11	1940.0 9	1310.0 9	1160.0 8	1050.0 7	922.0 7	614.0 7
1947	13100.0 10	9300.0 10	6620.0 8	4410.0 7	3550.0 5	2800.0 3	2170.0 3	1710.0 3	1140.0 4	682.0 4
1948	26500.0 4	20700.0 5	13400.0 1	7340.0 2	4070.0 3	2360.0 5	1690.0 6	1290.0 6	982.0 6	514.0 8
1949	27200.0 3	22700.0 3	12700.0 2	6560.0 3	4640.0 2	2690.0 4	1980.0 4	1670.0 4	1230.0 3	638.0 5
1950	31600.0 2	23700.0 2	12000.0 4	5760.0 6	3130.0 7	1660.0 7	1920.0 5	1550.0 5	1130.0 5	622.0 6
1951	4250.0 21	3890.0 21	2420.0 20	1300.0 20	1260.0 15	775.0 13	555.0 14	529.0 12	377.0 14	211.0 15
1952	7120.0 16	4940.0 18	2800.0 17	1450.0 17	876.0 17	704.0 15	508.0 15	409.0 17	299.0 17	160.0 18
1953	12400.0 11	9070.0 11	4620.0 12	2370.0 14	1290.0 13	725.0 14	491.0 17	461.0 15	342.0 16	178.0 17
1954	10000.0 12	7860.0 13	4330.0 14	3030.0 10	1660.0 10	862.0 12	601.0 13	461.0 16	358.0 15	283.0 12
1955	9860.0 13	8820.0 12	4740.0 11	2420.0 13	1270.0 14	677.0 16	477.0 18	373.0 18	266.0 19	148.0 19
1956	2350.0 23	2090.0 22	1200.0 23	590.0 23	304.0 23	157.0 23	110.0 23	86.5 23	63.6 23	50.2 23
1957	21400.0 6	15700.0 6	9650.0 6	8710.0 1	6290.0 1	4360.0 1	3400.0 1	2590.0 1	1890.0 1	964.0 2
1958	19700.0 7	13000.0 8	6250.0 9	3070.0 9	1570.0 11	1000.0 10	971.0 10	906.0 10	768.0 9	470.0 9
1959	7890.0 15	5410.0 16	2710.0 18	1370.0 18	849.0 19	668.0 17	619.0 12	502.0 13	458.0 11	243.0 13
1960	16600.0 8	14600.0 7	8460.0 7	4220.0 8	2570.0 8	1570.0 8	1150.0 9	991.0 8	836.0 8	740.0 3
1961	5040.0 20	4090.0 20	2330.0 21	1300.0 19	755.0 20	610.0 18	502.0 16	490.0 14	429.0 12	296.0 11
1962	2400.0 22	2030.0 23	1370.0 22	1280.0 21	735.0 21	555.0 19	429.0 19	352.0 19	283.0 18	201.0 16
1963	6360.0 17	4410.0 19	2430.0 19	1220.0 22	650.0 22	427.0 22	298.0 22	231.0 22	175.0 22	97.8 22
1964	5900.0 19	5420.0 15	3230.0 15	1650.0 15	889.0 16	503.0 20	356.0 20	276.0 21	212.0 21	111.0 21
1965	6200.0 18	4940.0 17	3000.0 16	1570.0 16	873.0 18	461.0 21	347.0 21	284.0 20	219.0 20	143.0 20



## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

## LITTLE RIVER NEAR SASAKWA, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS
1966	39	3	1	2	2	5	16	8	15	11	4	16	26	26	32	31	28	30	16	11	13	5	4	4	6	4	4	3							16194.7
1967	8	7	8	6	7	5	11	28	20	18	24	25	23	21	20	21	21	15	8	21	13	6	8	9	3	1	3	1							28429.9
1968												10	11	33	24	10	17	22	31	37	29	21	26	19	20	19	12	6	11	2	3	1	2		125064.2
1969							5	6	10	6	16	13	7	6	6	5	6	10	15	16	35	43	53	27	21	16	12	14	11	6					104064.7
1970	8			5	14	1	4	1	3	5	5	1	2	16	14	32	28	56	43	30	18	13	8	7	9	8	13	9	3	3	4	2			83261.6
1971											3	7	7	9	12	12	8	18	23	64	51	46	33	18	10	17	6	8	3	3	2	2	2	1	124089.9
1972	50					5	2	4	5			3	14	9	18	13	18	25	23	59	29	26	19	5	8	8	6	7	1	2				41867.3	
1973			1	3	5	8	4						3	5	5	2	5	9	17	40	17	26	25	19	28	43	43	22	11	10	12	2		229653.7	
1974												7	13	9	6	6	13	14	11	16	51	46	43	54	22	15	7	15	7	3	3	3	1	135228.1	

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	105	3287	100.0	9	0.50	45	2957	90.0	18	22.0	187	1919	58.4	27	1000	85	205	6.2
1	0.01	10	3182	96.8	10	0.70	59	2912	88.6	19	33.0	294	1732	52.7	28	1600	47	120	3.6
2	0.02	9	3172	96.5	11	1.10	82	2853	86.8	20	51.0	256	1438	43.7	29	2400	32	73	2.2
3	0.03	14	3163	96.2	12	1.60	106	2771	84.3	21	79.0	232	1182	36.0	30	3700	24	41	1.2
4	0.05	26	3149	95.8	13	2.50	134	2665	81.1	22	120.0	219	950	28.9	31	5800	11	17	.5
5	0.08	16	3123	95.0	14	3.90	137	2531	77.0	23	190.0	162	731	22.2	32	8900	5	6	.1
6	0.10	49	3107	94.5	15	6.00	132	2394	72.8	24	290.0	127	569	17.3	33	14000	1	1	.0
7	0.20	49	3058	93.0	16	9.20	144	2262	68.8	25	440.0	131	442	13.4	34				
8	0.30	52	3009	91.5	17	14.00	199	2118	64.4	26	670.0	106	311	9.5					

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## LITTLE RIVER NEAR SASAKWA, OKLAHOMA

YEAR	1		3		7		14		30		60		90		120		183	ANNUAL
1966	0.00	1	0.00	1	0.00	1	0.00	1	0.02	1	0.50	3	1.74	3	2.17	2	5.42	2
1967	0.00	2	0.00	2	0.00	2	0.00	2	0.09	4	0.17	1	0.34	1	0.71	1	2.09	1
1968	0.00	3	0.00	3	0.00	3	0.04	5	0.43	5	2.33	4	5.51	5	13.50	4	18.90	3
1969	9.80	9	9.93	9	11.30	9	16.30	9	41.30	9	58.00	9	74.90	8	73.70	7	164.00	7
1970	0.04	6	0.07	6	0.15	6	0.42	6	0.70	6	4.87	5	4.20	4	16.30	5	51.80	4
1971	0.00	4	0.00	4	0.00	4	0.02	4	0.07	3	6.89	6	53.10	7	88.00	8	389.00	8
1972	0.84	7	0.92	7	1.40	7	1.84	7	3.23	7	22.90	7	24.50	6	57.80	6	97.40	6
1973	0.00	5	0.00	5	0.00	5	0.00	3	0.02	2	0.42	2	0.50	2	5.52	3	64.30	5
1974	1.70	8	2.00	8	2.60	8	3.77	8	15.00	8	27.60	8	144.00	9	219.00	9	539.00	9

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## LITTLE RIVER NEAR SASAKWA, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL										
1966	1100.0	9	1030.0	9	726.0	9	477.0	9	269.0	9	147.0	9	99.7	9	76.8	9	83.2	9	44.4	9
1967	7430.0	4	4730.0	6	2710.0	6	1370.0	6	757.0	7	428.0	7	289.0	7	219.0	7	153.0	8	77.9	8
1968	13600.0	2	11100.0	2	6760.0	1	3720.0	1	2570.0	2	1480.0	1	1110.0	2	917.0	2	643.0	2	342.0	3
1969	2920.0	8	2500.0	7	1680.0	8	1220.0	7	1050.0	5	779.0	5	621.0	5	630.0	5	519.0	4	285.0	5
1970	5910.0	6	4880.0	5	3070.0	5	1680.0	5	986.0	6	714.0	6	523.0	6	406.0	6	389.0	6	228.0	6
1971	14800.0	1	12200.0	1	6280.0	2	3120.0	3	2610.0	1	1360.0	3	927.0	3	727.0	3	505.0	5	340.0	4
1972	3330.0	7	2140.0	8	1810.0	7	1120.0	8	610.0	8	338.0	8	263.0	8	210.0	6	194.0	7	114.0	7
1973	7110.0	5	5540.0	4	3900.0	4	2480.0	4	1760.0	4	1480.0	2	1390.0	1	1300.0	1	968.0	1	629.0	1
1974	9020.0	3	7850.0	3	4960.0	3	3280.0	2	1830.0	3	1230.0	4	918.0	4	712.0	4	535.0	3	370.0	2

## 195

LOCATION.--Lat 34°38'32", long 96°14'24", in NE 1/4 SW 1/4 sec.22, T.6 N., R.10 E., Hughes County, near left bank on downstream side of pier of bridge on U.S. Highway 75. 0.5 mi (0.8 km) northeast of Calvin, 2.5 mi (4.0 km) upstream from Shawnee Creek, 8.5 mi (13.7 km) downstream from Little River, and at mile 93.9 (151.1 km).

PERIOD OF RECORD.--January 1905 to December 1908, October 1938 to September 1942, July 1944 to September 1974. Statistical summaries for this station are divided into unregulated and regulated periods.

GAGE.--Water-stage recorder and nonrecording gage. Datum of gage is 684.72 ft (208.703 m) above mean sea level. January 1905 to December 1908, nonrecording gage at site 0.8 mi (1.3 km) upstream at datum 2.00 ft (0.611 m) higher. Oct. 1, 1938, to Aug. 12, 1944, nonrecording gage at present site and datum.

REMARKS.--Occasional slight regulation by dams in New Mexico and Texas.

## CANADIAN RIVER AT CALVIN, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS
1936												1	3	15	5	20	15	43	38	30	37	28	46	25	22	13	12	6	3	1	1	1		845730.0	
1939	13					9				1		7	22	16	31	36	34	47	40	21	19	12	14	11	9	6	5	5			1		346636.0		
1940	9					2		5	2	4	24	41	38	35	40	27	16	16	23	17	15	10	11	3	5	3	2	2					174950.0		
1941												1	17	8	12	7	3	5	10	15	40	35	31	28	38	26	16	20	18	17	5	9	2	2	1512747.0
1942																	1	3	16	28	34	49	42	49	36	24	11	17	16	19	9	4	2	2012323.0	
1945													11	15	9	17	27	52	43	34	28	23	22	14	20	22	11	9	6	2			1280437.0		
1946												6	5	5	8	9	6	8	35	51	40	51	36	29	24	17	13	11	8	2	1		707358.0		
1947												1	3	14	10	12	9	8	68	38	49	53	20	12	6	13	13	9	9	13	4	1	1006653.0		
1948												5	22	16	15	23	42	51	47	34	21	17	15	21	9	8	11	5	1	2			1	665791.0	
1949												15	10	13	6	40	28	30	30	29	31	19	21	21	11	15	8	2	2	3	1		947122.0		
1950												3	19	46	41	44	42	30	27	17	15	21	23	7	10	10	8	2	1			1	645825.0		
1951												8	6	6	6	8	9	21	78	64	37	23	29	15	17	9	10	6	5	2	1	3	2	525752.1	
1952					11	6	5	8	2	7	22	30	16	3	7	32	55	42	34	24	15	15	5	5	3	5	2	1					161183.8		
1953				1	4	5	7	16	11	5	4	9	6	16	50	41	31	21	16	19	22	20	15	11	13	7	8	2	2	1	1	1		230561.1	
1954	34	2	2	2	1	2	1	3	1	4	5	4	9	16	14	22	40	60	48	17	10	8	11	5	15	5	10	6	6	1	1		389332.6		
1955										1	20	15	15	24	22	25	24	43	36	30	17	17	16	18	12	8	5	5	4	1	3	1	1	357233.3	
1956	49		1			1	1	3	3	5	8	15	16	20	75	52	28	27	18	10	9	8	2	6	1	2	3		1	1	1		143971.7		
1957	27			1	2	2	2		6	2	7	4	21	13	17	14	13	34	27	22	22	15	11	21	12	13	10	13	15	12	4	2	1	1188741.5	
1958																	10	46	61	36	47	49	40	24	28	13	4	2	3	1	1		693664.0		
1959												1	4	26	29	60	60	54	20	18	19	16	18	17	11	4	1	4	1	2		390224.0			
1960																4	2	6	8	12	59	37	45	59	30	22	28	16	19	11	3	1	4	1127325.0	
1961																3	10	22	40	47	58	47	31	36	30	17	12	7	4	1			573493.0		
1962												2	1			6	7	11	14	16	42	53	61	52	34	30	19	10	9	5	2	1	438284.8		
1963			5	5	2	1	3	3	9	11	8	7	5	5	6	9	14	27	39	62	65	28	18	8	11	4	4	2	1	1	2		211936.3		
1964			4	7	14	15	7	12	6	5	12	10	13	21	26	43	30	30	28	25	13	18	14	2	2	2	1	2	2	1	1		127951.0		
CLASS	CFS	TOTAL	ACCU	PERC	CLASS	CFS	TOTAL	ACCU	PERC	CLASS	CFS	TOTAL	ACCU	PERC	CLASS	CFS	TOTAL	ACCU	PERC	CLASS	CFS	TOTAL	ACCU	PERC	CLASS	CFS	TOTAL	ACCU	PERC	CLASS	CFS	TOTAL	ACCU	PERC	
0	0.00	132	9131	100.0	9	4.20	67	8754	95.9	18	180.0	913	5737	62.8	27	7900	203	529	5.7	27	7900	203	529	5.7	27	7900	203	529	5.7	27	7900	203	529	5.7	
1	0.10	11	8999	98.6	10	6.40	118	8687	95.1	19	280.0	870	4824	52.8	28	12000	150	326	3.5	28	12000	150	326	3.5	28	12000	150	326	3.5	28	12000	150	326	3.5	
2	0.20	16	8988	98.4	11	9.80	172	8569	93.8	20	420.0	733	3954	43.3	29	18000	93	176	1.9	29	18000	93	176	1.9	29	18000	93	176	1.9	29	18000	93	176	1.9	
3	0.30	23	8972	98.3	12	15.00	231	8397	92.0	21	640.0	707	3221	35.3	30	28000	51	83	.9	30	28000	51	83	.9	30	28000	51	83	.9	30	28000	51	83	.9	
4	0.50	35	8949	98.0	13	23.00	289	8166	89.4	22	980.0	539	2514	27.5	31	42000	23	32	.3	31	42000	23	32	.3	31	42000	23	32	.3	31	42000	23	32	.3	
5	0.80	39	8914	97.6	14	34.00	430	7877	86.3	23	1500.0	514	1975	21.6	32	64000	8	9	.0	32	64000	8	9	.0	32	64000	8	9	.0	32	64000	8	9	.0	
6	1.20	40	8875	97.2	15	52.00	420	7447	81.6	24	2300.0	389	1461	16.0	33	98000	1	1	.0	33	98000	1	1	.0	33	98000	1	1	.0	33	98000	1	1	.0	
7	1.80	45	8835	96.8	16	79.00	577	7027	77.0	25	3400.0	320	1072	11.7	34					34															
8	2.80	36	8790	96.3	17	120.00	713	6450	70.6	26	5200.0	223	752	8.2																					

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## CANADIAN RIVER AT CALVIN, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
	0.00 1	0.00 1	0.00 1	0.00 1	0.27 3	9.75 5	13.70 5	14.60 4	35.30 5	776.00 5
1940										
1941	9.00 9	9.67 8	10.40 8	13.20 8	15.10 7	27.30 6	97.30 10	245.00 12	503.00 11	778.00 6
1942	110.00 22	114.00 22	317.00 22	482.00 22	767.00 22	818.00 21	822.00 20	1160.00 21	5300.00 22	6480.00 22
1946	50.00 19	52.00 19	55.10 17	63.30 15	144.00 17	302.00 16	467.00 17	938.00 18	2000.00 21	3410.00 20
1947	11.00 10	11.70 10	12.90 9	17.40 10	33.50 9	283.00 15	377.00 15	1050.00 20	1480.00 19	1780.00 13
1948	13.00 12	16.70 13	21.30 11	25.60 11	37.80 11	77.90 10	105.00 11	139.00 10	194.00 8	2390.00 17
1949	16.00 13	16.00 12	16.40 10	17.20 9	23.70 8	35.70 7	96.20 9	119.00 9	320.00 9	1930.00 14
1950	33.00 16	34.00 16	39.10 15	79.60 17	115.00 15	136.00 12	278.00 14	376.00 14	434.00 10	2290.00 15
1951	56.00 20	56.70 20	59.70 19	69.10 16	110.00 14	138.00 14	170.00 13	208.00 11	540.00 12	2340.00 16
1952	6.20 7	6.33 7	6.56 7	8.19 7	10.10 6	66.40 9	75.60 7	87.20 7	103.00 6	1270.00 10
1953	0.20 5	0.30 5	0.41 5	0.63 5	1.12 5	2.97 2	4.40 3	9.17 3	26.60 2	396.00 3
1954	1.50 6	2.27 6	4.01 6	7.70 6	36.10 10	136.00 13	142.00 12	290.00 13	782.00 15	976.00 7
1955	0.00 2	0.00 2	0.00 2	0.00 2	0.05 2	4.56 4	12.10 4	28.00 5	30.70 3	723.00 4
1956	12.00 11	14.50 11	24.00 13	37.10 14	42.80 13	47.50 8	50.30 6	78.70 6	570.00 13	1210.00 9
1957	0.00 3	0.00 3	0.00 3	0.00 3	0.00 1	0.00 1	0.68 1	7.46 2	31.40 4	196.00 1
1958	44.00 18	49.70 18	64.70 20	111.00 21	263.00 18	346.00 18	574.00 19	658.00 16	816.00 16	3630.00 21
1959	32.00 15	32.70 15	34.00 14	35.90 13	42.60 12	79.90 11	84.70 8	108.00 8	153.00 7	1520.00 12
1960	22.00 14	25.00 14	39.40 16	85.10 18	331.00 20	846.00 22	1430.00 22	1480.00 22	1980.00 20	2460.00 19
1961	42.00 17	44.70 17	57.10 18	85.80 19	279.00 19	768.00 20	874.00 21	944.00 19	1280.00 18	2410.00 18
1962	71.00 21	72.00 21	98.60 21	108.00 20	433.00 21	529.00 19	566.00 18	783.00 17	1040.00 17	1310.00 11
1963	8.70 8	10.60 9	22.30 12	32.70 12	135.00 16	319.00 17	378.00 16	498.00 15	603.00 14	989.00 8
1964	0.10 4	0.10 4	0.13 4	0.25 4	0.34 4	3.36 3	3.44 2	7.44 1	16.20 1	305.00 2

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## CANADIAN RIVER AT CALVIN, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
	65700.0 7	40400.0 10	23500.0 12	14200.0 10	9410.0 10	7880.0 7	5890.0 8	5000.0 8	3690.0 8	2320.0 9
1940										
1941	30600.0 17	19300.0 19	14700.0 14	11000.0 13	5910.0 14	3490.0 16	2480.0 16	1990.0 18	1520.0 17	950.0 19
1942	17900.0 24	13800.0 23	8520.0 21	4560.0 23	3180.0 21	1910.0 21	1550.0 21	1250.0 21	914.0 21	478.0 22
1943	66400.0 6	49900.0 5	39400.0 3	27400.0 2	20100.0 2	14200.0 2	11100.0 2	9360.0 1	7630.0 1	4140.0 2
1944	91300.0 3	65200.0 1	41700.0 1	27700.0 1	22000.0 1	13800.0 3	9910.0 3	7630.0 3	5710.0 3	5510.0 1
1945	60500.0 8	40600.0 9	25200.0 10	14800.0 9	9560.0 4	8130.0 6	7000.0 6	6830.0 4	5540.0 4	3510.0 3
1946	35200.0 15	21800.0 17	12500.0 17	8620.0 16	5780.0 15	4150.0 13	3320.0 13	3150.0 13	2880.0 12	1940.0 10
1947	54400.0 10	34000.0 11	27400.0 7	19300.0 6	13900.0 5	9940.0 5	7600.0 5	5920.0 6	4110.0 7	2760.0 6
1948	107000.0 1	61600.0 2	36200.0 4	21000.0 5	11800.0 6	6960.0 8	5210.0 9	4140.0 10	3410.0 10	1820.0 12
1949	82600.0 5	61600.0 3	41600.0 2	23000.0 4	16500.0 4	10800.0 4	7670.0 4	6200.0 5	4900.0 5	2590.0 7
1950	84400.0 4	47800.0 6	25700.0 9	15700.0 8	11300.0 8	6740.0 9	6630.0 7	5460.0 7	4140.0 6	2320.0 8
1951	58600.0 9	45700.0 8	30600.0 6	18600.0 7	11500.0 7	6610.0 10	4580.0 11	3640.0 12	2610.0 13	1440.0 14
1952	12600.0 25	8630.0 25	5360.0 25	4010.0 24	2240.0 25	1840.0 22	1380.0 22	1130.0 22	814.0 23	440.0 23
1953	29700.0 18	19400.0 18	10800.0 19	6200.0 19	3680.0 18	2310.0 20	1570.0 20	1470.0 20	1210.0 20	632.0 20
1954	33000.0 16	23000.0 16	13800.0 15	9990.0 14	7230.0 13	3970.0 15	2710.0 15	2060.0 17	1470.0 18	1070.0 16
1955	44400.0 13	31100.0 12	23600.0 11	13500.0 12	7720.0 12	4640.0 12	3210.0 14	2550.0 14	1840.0 15	979.0 18
1956	28000.0 19	23300.0 15	11900.0 18	5880.0 21	3010.0 22	1530.0 23	1030.0 25	793.0 25	570.0 25	393.0 24
1957	97600.0 2	53200.0 4	35000.0 5	26800.0 3	19700.0 3	14700.0 1	11400.0 1	8710.0 2	6330.0 2	3260.0 4
1958	50200.0 12	26100.0 13	15500.0 13	8750.0 15	5580.0 16	4140.0 14	4100.0 12	3660.0 11	3070.0 11	1900.0 11
1959	39300.0 14	25600.0 14	13000.0 16	6080.0 20	3670.0 19	2600.0 17	2430.0 17	2080.0 16	1980.0 14	1070.0 17
1960	51800.0 11	47000.0 7	27000.0 8	13700.0 11	8570.0 11	5560.0 11	5200.0 10	4500.0 9	3450.0 9	3080.0 5
1961	19400.0 22	14000.0 22	8450.0 22	6390.0 17	3640.0 20	2430.0 18	2280.0 18	2110.0 15	1770.0 16	1570.0 13
1962	16800.0 23	12900.0 24	7610.0 23	6250.0 18	3880.0 17	2430.0 19	1910.0 19	1740.0 19	1360.0 19	1200.0 15
1963	23700.0 21	14300.0 21	7420.0 24	3840.0 25	2320.0 24	1530.0 24	1150.0 23	941.0 23	913.0 22	581.0 21
1964	24500.0 20	16200.0 20	9630.0 20	4880.0 22	2610.0 23	1490.0 25	1120.0 24	895.0 24	638.0 24	350.0 25

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

## CANADIAN RIVER AT CALVIN, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34		
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS		
1965							1		3	1	3	4	7	6	12	10	17	14	12	11	41	65	57	31	27	21	10	3		5	1	2	1			221767.2	
1966	10						1	3	1	7	4	10	11	11	8	16	12	27	58	33	50	33	24	19	8	10	7	1	1							79085.4	
1967	9	1		1	1	1	3	10	15	10	6	15	27	24	32	31	24	19	21	14	21	19	16	12	11	5	5	6	2	1	2				1	134797.1	
1968															2	25	15	12	48	36	42	27	31	34	26	24	16	11	5	7	2	2	1		442147.0		
1969							1		1	3	5	7	11	10	12	12	4	7	18	19	41	52	35	41	28	17	12	14	9	3	2	1			556065.6		
1970							1	1	6	3	5	7	8	10	9	8	4	11	49	60	49	43	23	14	14	12	6	7	5	5	2	3			322969.8		
1971															2	2	6	7	6	19	31	20	84	52	41	24	26	14	8	10	4	2	3	1	2	1	461175.8
1972											1	5	24		6	8	9	8	7	23	33	43	35	58	33	30	18	9	2	8	4	1	1			206138.2	
1973													1	7	9	2	2	8	7	10	10	23	42	36	32	35	29	37	32	16	10	8	6	3		935364.3	
1974															1	13	8	12	9	11	17	7	25	77	58	46	28	17	18	4	8	2	1	3		592572.0	

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	19	3652	100.0	9	1.30	24	3589	98.3	18	54.0	176	2904	79.5	27	2200	113	368	10.0					
1	0.05	1	3633	99.5	10	2.00	18	3565	97.6	19	81.0	247	2728	74.7	28	3300	101	255	6.9					
2	0.07	0	3632	99.5	11	3.00	42	3547	97.1	20	120.0	316	2481	67.9	29	5100	58	154	4.2					
3	0.10	1	3632	99.5	12	4.50	82	3505	96.0	21	190.0	376	2165	59.3	30	7600	45	96	2.6					
4	0.20	1	3631	99.4	13	6.80	71	3423	93.7	22	280.0	385	1789	49.0	31	12000	23	51	1.3					
5	0.30	1	3630	99.4	14	10.00	93	3352	91.8	23	420.0	355	1404	38.4	32	17000	16	28	.7					
6	0.40	5	3629	99.4	15	16.00	108	3259	89.2	24	640.0	273	1049	28.7	33	26000	11	12	.3					
7	0.60	15	3624	99.2	16	24.00	123	3151	86.3	25	970.0	242	776	21.2	34	40000	1	1	.0					
8	0.90	20	3609	98.8	17	36.00	124	3028	82.9	26	1500.0	166	534	14.6										

## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## CANADIAN RIVER AT CALVIN, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL										
1966	0.50	3	1.10	3	3.04	4	16.70	6	32.40	6	84.70	6	131.00	6	164.00	4	206.00	3	426.00	2
1967	0.00	1	0.00	1	0.00	1	0.80	2	2.26	1	3.68	1	6.42	1	9.53	1	15.30	1	122.00	1
1968	0.00	2	0.00	2	0.00	2	0.57	1	2.87	2	42.50	4	123.00	5	132.00	3	133.00	2	637.00	3
1969	30.00	8	31.00	8	46.70	8	105.00	9	346.00	9	399.00	9	447.00	8	455.00	8	849.00	7	1770.00	8
1970	0.84	5	2.48	5	4.98	6	9.29	5	16.30	5	40.90	3	89.20	3	195.00	5	325.00	5	916.00	5
1971	0.70	4	1.33	4	1.71	3	3.50	3	8.47	3	43.40	5	122.00	4	408.00	7	1300.00	8	1500.00	7
1972	7.90	7	8.93	7	16.40	7	39.10	7	56.20	7	169.00	7	165.00	7	297.00	6	614.00	6	829.00	4
1973	2.80	6	3.60	6	4.40	5	5.07	4	12.60	4	17.20	2	29.30	2	54.70	2	264.00	4	1280.00	6
1974	47.00	9	47.30	9	48.30	9	54.50	8	101.00	8	200.00	8	615.00	9	1200.00	9	1930.00	9	2470.00	9

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## CANADIAN RIVER AT CALVIN, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL										
1965	21400.0	8	12900.0	8	7400.0	8	3880.0	9	2220.0	9	1260.0	9	950.0	9	786.0	9	652.0	9	608.0	7
1966	3770.0	10	2720.0	10	2110.0	10	1280.0	10	683.0	10	401.0	10	393.0	10	328.0	10	260.0	10	217.0	10
1967	36100.0	3	18400.0	6	9630.0	6	5130.0	7	2870.0	7	1650.0	8	1340.0	7	1030.0	8	722.0	8	369.0	9
1968	35200.0	4	24700.0	3	15300.0	4	8420.0	5	6910.0	3	4510.0	2	3270.0	3	2900.0	3	2130.0	4	1210.0	5
1969	27400.0	6	19000.0	5	11200.0	5	8700.0	4	5770.0	5	3970.0	5	3540.0	2	3250.0	2	2630.0	2	1520.0	3
1970	22100.0	7	16500.0	7	9470.0	7	5830.0	6	3380.0	6	2450.0	6	1860.0	6	1490.0	6	1310.0	6	885.0	6
1971	87700.0	1	45600.0	1	22000.0	1	10900.0	1	8140.0	1	4300.0	3	2970.0	5	2360.0	5	1680.0	5	1260.0	4
1972	12000.0	9	7580.0	9	6480.0	9	3910.0	8	2470.0	8	1660.0	7	1330.0	8	1110.0	7	856.0	7	563.0	8
1973	34700.0	5	23500.0	4	15600.0	3	9710.0	3	8020.0	2	6580.0	1	5740.0	1	5250.0	1	4010.0	1	2560.0	1
1974	39000.0	2	31900.0	2	17500.0	2	10300.0	2	5890.0	4	4010.0	4	3070.0	4	2440.0	4	2200.0	3	1620.0	2

## ARKANSAS RIVER BASIN

07232000 GAINES CREEK NEAR KREBS, OKLA.

LOCATION.--Lat 34°58'46", long 95°37'18", in SW 1/4 NE 1/4 sec.21, T.6 N., R.16 E., on downstream side of right pier of abandoned county road bridge, 0.8 mi (1.3 km) upstream from Nutter Creek and 6.5 mi (10.5 km) northeast of Krebs.

DRAINAGE AREA.--588 mi<sup>2</sup> (1,523 km<sup>2</sup>).

PERIOD OF RECORD.--October 1942 to September 1963.

AVERAGE DISCHARGE.--21 years (1943-63), 564 ft<sup>3</sup>/s (16.0 m<sup>3</sup>/s).

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

## GAINES CREEK NEAR KREBS, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS
1943	32	3	10	8	4	3	8	9	20	5	6	13	21	24	36	17	24	25	25	18	9	8	3	4	6	8	4	3	2	1	3	1	2	255728.3	
1944	16	6	4	4	2	4	7	11	11	15	19	14	17	16	8	14	16	19	24	30	24	21	13	10	11	5	15	4	5	1			176897.4		
1945	3	2	5	8	2	3	3	21	15	9	3	20	22	20	18	18	14	13	17	10	11	16	11	12	12	9	20	18	15	8	4	3	521420.1		
1946	2	20	15	5	4	9	5	2	1	6	5	2	9	27	18	19	24	37	27	22	14	16	9	14	16	10	11	11	4	1			209375.1		
1947	32	6	8	9	8	7	12	10	7	4	5	3	1	25	27	16	16	25	28	21	18	11	5	6	8	9	10	11	7	3	5	2	328955.4		
1948	18	14	7	5	11	7	10	10	13	15	14	11	17	38	16	23	20	14	18	11	16	10	11	11	11	4	4	4	2	1			114174.9		
1949	74		6	6	9	5	20	11	10	9	10	11	8	9	10	14	14	26	18	16	18	11	9	5	6	12	9	6	3				141044.2		
1950										4	14	6	17	43	30	16	25	24	28	21	19	14	17	15	10	20	14	11	12	2	1	2	356842.9		
1951							3	4	7	7	18	80	29	32	32	27	19	23	20	12	9	5	8	6	5	5	4	4	5	1			122990.0		
1952		3	6	10	14	3	16	12	15	19	9	14	10	23	26	27	11	24	34	24	16	10	7	11	9	2	5	3	2	1			109468.4		
1953	20	4	5	4	2	14	19	19	4	5	9	22	23	26	24	16	16	22	22	15	11	7	11	6	4	3	5	12	7	7	1		239747.6		
1954	70	2	1	1	2	2	3	13	12	6	10	11	38	40	25	32	16	16	11	11	10	6	4	7	6	3	3	1	3				74228.6		
1955	25	15	5	8	3	3	18	11	14	11	13	9	12	13	15	16	19	25	27	24	16	13	15	9	7	5	8	3	2	1			127012.7		
1956	70	3	2	3	6	38	38	24	7	5	12	15	21	24	17	15	10	13	15	8	6	3	2	1	3	3	2						30379.8		
1957	74	3	2	5	12	6	10	13	15	9	7	8	2	3	4	12	16	15	11	17	8	17	11	15	14	8	14	8	11	9	6		391160.1		
1958										11	4	19	12	15	13	29	30	35	33	31	38	14	21	14	8	14	14	3	4	3			218997.6		
1959									6	5	14	19	21	18	49	56	32	23	19	19	16	14	8	8	6	9	5	6	4	3	5		155081.8		
1960									6	11	9	12	12	9	39	21	19	28	24	20	28	29	17	14	15	12	8	11	7	2	6	3	2	2	380728.0
1961						1		1	32	25	14	14	14	7	25	35	26	27	21	35	24	17	8	7	15	9	4	3	1				111879.5		
1962	13	4	2	2		4	15	11	2	2	4	4	4	11	9	22	41	36	33	26	19	26	13	15	7	8	17	3	2	2	1		193723.6		
1963	31	16	19	9	5		11	12	7	6	6	4	18	14	33	38	26	24	21	16	13	9	9	5	1	5	3	4					68617.6		

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	480	7670	100.0	9	3.30	196	6091	79.4	18	110.0	472	2711	35.3	27	3800	123	305	3.9
1	0.10	101	7190	93.7	10	4.90	211	5895	76.9	19	160.0	412	2239	29.2	28	5600	92	182	2.3
2	0.20	97	7089	92.4	11	7.20	313	5684	74.1	20	240.0	342	1827	23.8	29	8200	52	90	1.1
3	0.30	87	6992	91.2	12	11.00	322	5371	70.0	21	360.0	259	1465	19.4	30	12000	24	38	.4
4	0.50	84	6905	90.0	13	16.00	498	5049	65.8	22	530.0	209	1226	16.0	31	18000	10	14	.1
5	0.70	109	6821	88.9	14	23.00	463	4551	59.3	23	790.0	194	1017	13.3	32	27000	2	4	.0
6	1.00	198	6712	87.5	15	34.00	457	4088	53.3	24	1200.0	180	823	10.7	33	39000	2	2	.0
7	1.50	206	6514	84.4	16	51.00	434	3631	47.3	25	1700.0	155	643	8.4	34				
8	2.20	217	6308	82.2	17	75.00	486	3197	41.7	26	2500.0	183	488	6.4					

## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## GAINES CREEK NEAR KREBS, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1944	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	1.08 6	4.65 8	16.20 10	19.10 5	766.00 16
1945	0.00 2	0.00 2	0.00 2	0.03 8	0.58 8	4.62 9	5.98 10	9.32 7	12.20 4	823.00 17
1946	0.80 16	1.23 15	2.36 17	4.88 17	12.30 17	66.60 18	81.40 17	293.00 19	331.00 18	1160.00 19
1947	0.00 3	0.00 3	0.00 3	0.00 2	0.00 2	0.08 4	0.37 4	4.33 5	309.00 17	685.00 12
1948	0.00 4	0.00 4	0.00 4	0.05 9	0.13 6	0.37 5	0.74 5	3.74 4	27.20 7	696.00 13
1949	0.00 5	0.00 5	0.00 5	0.00 3	0.00 3	0.00 1	0.01 3	0.55 3	3.45 2	304.00 5
1950	0.20 13	0.23 13	0.40 13	1.89 13	2.53 12	10.30 12	43.70 15	47.10 13	49.00 8	408.00 8
1951	5.00 20	5.30 20	6.27 20	6.77 18	7.50 16	8.29 11	9.19 11	12.90 8	283.00 16	864.00 18
1952	0.10 11	0.10 11	0.16 11	0.25 10	1.89 11	26.90 14	22.60 12	47.60 14	86.50 10	301.00 4
1953	0.00 6	0.00 6	0.00 6	0.00 4	0.13 7	1.20 7	3.94 7	14.40 9	19.40 6	390.00 7
1954	0.10 12	0.17 12	0.26 12	0.61 11	2.71 13	35.00 17	69.00 16	69.60 15	156.00 14	551.00 11
1955	0.00 7	0.00 7	0.00 7	0.00 5	0.00 4	0.00 2	0.00 1	0.52 2	4.15 3	323.00 6
1956	0.00 8	0.00 8	0.04 10	0.62 12	1.05 9	1.23 8	1.23 6	6.68 6	104.00 11	189.00 2
1957	0.00 9	0.00 9	0.00 8	0.00 6	0.00 5	0.00 3	0.00 2	0.00 1	0.99 1	176.00 1
1958	0.40 14	0.50 14	0.76 14	2.35 14	15.90 18	33.00 16	38.50 14	233.00 18	381.00 19	1240.00 20
1959	1.50 17	1.57 16	1.79 15	2.43 15	4.77 15	22.10 13	28.80 13	33.20 11	73.60 9	410.00 9
1960	4.40 19	4.53 19	5.83 19	7.57 19	20.30 19	70.70 19	461.00 20	395.00 20	603.00 20	752.00 15
1961	0.80 15	1.80 17	2.00 16	2.86 16	2.98 14	6.18 10	5.44 9	44.90 12	124.00 12	730.00 14
1962	3.80 18	4.27 18	4.74 18	12.40 20	21.10 20	166.00 20	173.00 19	208.00 17	263.00 15	543.00 10
1963	0.00 10	0.00 10	0.00 9	0.01 7	1.60 10	28.30 15	86.10 18	93.70 16	128.00 13	289.00 3

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## GAINES CREEK NEAR KREBS, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1943	57400.0 1	38700.0 1	20300.0 1	9840.0 1	5120.0 4	3010.0 3	2160.0 6	1630.0 6	1360.0 6	701.0 6
1944	8400.0 16	6770.0 17	4350.0 16	2520.0 18	1880.0 12	1410.0 10	1340.0 8	1220.0 9	946.0 9	483.0 11
1945	20000.0 5	16300.0 5	11300.0 4	7700.0 3	6170.0 1	4580.0 1	3710.0 1	3660.0 1	2690.0 1	1430.0 1
1946	8920.0 13	7210.0 14	5030.0 13	3740.0 8	2180.0 9	1560.0 9	1180.0 10	1290.0 8	1040.0 8	574.0 9
1947	21200.0 4	19000.0 4	11700.0 3	5600.0 6	3070.0 7	2590.0 6	1870.0 7	1430.0 7	1410.0 5	901.0 5
1948	8590.0 15	7270.0 13	5020.0 14	2770.0 14	1770.0 14	1110.0 16	926.0 15	736.0 17	587.0 15	312.0 16
1949	7060.0 18	6300.0 18	4030.0 17	2550.0 16	1870.0 13	1290.0 13	1050.0 12	943.0 11	747.0 13	386.0 13
1950	22800.0 3	19300.0 3	11200.0 5	5640.0 5	3660.0 5	2520.0 7	2290.0 4	1790.0 3	1440.0 4	978.0 4
1951	8710.0 14	7720.0 12	5630.0 10	2940.0 13	1690.0 15	996.0 17	750.0 17	901.0 12	652.0 14	337.0 15
1952	9340.0 12	7150.0 15	3890.0 18	3440.0 9	1980.0 11	1340.0 11	966.0 14	769.0 16	537.0 17	299.0 18
1953	12900.0 8	9960.0 8	7620.0 7	3940.0 7	3390.0 6	2670.0 5	2190.0 5	1680.0 5	1280.0 7	657.0 7
1954	7600.0 17	7130.0 16	4360.0 15	2540.0 17	1330.0 18	682.0 19	488.0 19	524.0 19	381.0 19	203.0 19
1955	10200.0 10	8210.0 11	5720.0 9	3020.0 12	1640.0 17	1120.0 15	910.0 16	779.0 15	581.0 16	348.0 14
1956	3370.0 21	2370.0 21	1240.0 21	778.0 21	444.0 21	235.0 21	175.0 21	204.0 21	139.0 21	83.0 21
1957	15600.0 6	13300.0 6	10400.0 6	7070.0 4	5230.0 3	4250.0 2	3660.0 2	2860.0 2	1990.0 2	1070.0 2
1958	11800.0 9	9510.0 9	5590.0 11	3260.0 10	2010.0 10	1580.0 8	1220.0 9	1020.0 10	915.0 11	600.0 8
1959	10000.0 11	8850.0 10	5530.0 12	2760.0 15	1680.0 16	1180.0 14	1110.0 11	846.0 14	792.0 12	425.0 12
1960	34000.0 2	30600.0 2	17400.0 2	8280.0 2	5730.0 2	2980.0 4	2300.0 3	1770.0 4	1450.0 3	1040.0 3
1961	5730.0 19	4600.0 19	3360.0 19	2000.0 19	1210.0 19	773.0 18	661.0 18	573.0 18	469.0 18	307.0 17
1962	13700.0 7	10500.0 7	5760.0 8	3250.0 11	2380.0 8	1310.0 12	1030.0 13	898.0 13	925.0 10	531.0 10
1963	4720.0 20	3690.0 20	2030.0 20	1030.0 20	654.0 20	581.0 20	443.0 20	356.0 20	307.0 20	188.0 20

## STATISTICS OF ANNUAL DISCHARGE FOR WATER YEARS, 1943-63

Units of annual Discharge	Mean	Standard Deviation	Coefficient of Variation	Skew Coefficient	First Order Serial Correlation Coefficient
CFS	564	347	0.62	0.93	-0.21
LOGS of CFS	2.667	0.295		-0.581	-0.172



LOCATION.--Lat 36°43'24", long 101°29'30", in NW 1/4 SW 1/4 sec.18, T.3 N., R.15 E., Texas County, near center of span on downstream side of pier of bridge on U.S. Highway 64 at Dry Sand Draw, 1.2 mi (1.9 km) upstream from Goff Creek, 2.5 mi (4.0 km) north of Guymon, and at mile 650.7 (1,047.0 km). Records include flow of Dry Sand Draw.

PERIOD OF RECORD.--October 1937 to September 1974.

AVERAGE DISCHARGE.--37 years (1938-74). 26.5 ft<sup>3</sup>/s (0.750 m<sup>3</sup>/s).

BEAVER RIVER NEAR GUYMON, OKLAHOMA

CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT
0	0.00	898	13514	100.0	9	0.40	303	12166	90.0	18	19.0	378	1132	8.4	27	810	14	77	.5
1	0.01	6	12616	93.4	10	0.70	327	11863	87.8	19	28.0	197	754	5.6	28	1200	29	63	.4
2	0.02	5	12610	93.3	11	1.00	972	11536	85.4	20	43.0	155	557	4.1	29	1900	16	34	.2
3	0.03	15	12605	93.2	12	1.50	896	10564	78.2	21	66.0	85	402	3.0	30	2800	8	18	.1
4	0.05	23	12590	93.2	13	2.30	828	9668	71.5	22	100.0	68	317	2.3	31	4300	7	10	.0
5	0.08	15	12567	93.0	14	3.50	1541	8840	65.4	23	150.0	71	249	1.8	32	6600	1	3	.0
6	0.10	151	12552	92.9	15	5.30	3073	7299	54.0	24	230.0	36	178	1.3	33	10000	2	2	.0
7	0.20	107	12401	91.8	16	8.10	1938	4226	31.3	25	350.0	31	142	1.1	34				
8	0.30	128	12294	91.0	17	12.00	1156	2288	16.9	26	530.0	34	111	0.8					

## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## BEAVER RIVER NEAR GUYMON, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1939	0.00 1	0.00 1	0.00 1	0.29 20	2.73 33	4.42 29	7.30 31	7.35 30	8.39 29	59.20 34
1940	0.00 2	0.00 2	0.29 22	0.64 24	0.83 22	1.02 17	1.14 11	1.58 9	4.99 15	29.90 25
1941	0.00 3	0.00 3	0.00 2	0.00 1	0.03 7	0.98 16	2.88 22	4.00 19	5.28 18	28.20 24
1942	0.00 4	0.00 4	0.00 3	0.00 2	7.43 36	10.80 36	10.80 35	11.60 34	35.90 35	153.00 36
1943	0.00 5	1.00 32	1.00 31	1.43 32	1.80 28	4.20 28	5.49 28	6.21 26	6.70 26	51.50 31
1944	0.00 6	0.00 5	0.00 4	0.00 3	0.00 1	0.23 8	0.47 6	1.19 6	3.90 8	6.78 6
1945	0.00 7	0.00 6	0.00 5	0.07 15	0.17 12	0.37 9	0.76 7	1.47 8	4.29 11	10.60 11
1946	0.00 8	0.13 23	0.31 23	0.42 22	0.57 18	2.03 22	2.74 21	3.71 18	5.08 16	10.80 12
1947	0.20 27	0.27 24	0.39 24	0.59 23	0.62 19	5.56 30	11.50 36	12.00 35	23.30 34	47.90 29
1948	0.70 31	0.73 30	0.83 29	0.87 29	0.95 23	1.64 19	2.49 18	3.17 15	4.10 10	14.10 15
1949	1.80 35	1.93 35	2.37 35	2.61 35	3.52 34	5.98 31	7.40 32	7.16 28	8.27 28	30.10 26
1950	0.40 32	0.40 31	0.94 30	1.09 30	1.86 29	2.90 26	3.80 24	4.46 22	5.57 19	11.80 13
1951	0.50 30	0.57 28	1.17 32	1.74 34	2.60 32	6.52 32	8.02 33	12.10 36	13.20 33	52.90 32
1952	1.20 34	1.33 34	1.44 34	1.70 33	1.95 30	2.00 21	3.44 23	4.47 23	5.58 20	25.80 23
1953	0.40 28	0.40 26	0.64 28	0.86 28	1.06 26	1.64 20	2.10 15	3.27 16	4.93 14	8.20 8
1954	0.40 29	0.57 29	0.61 27	0.76 26	1.01 24	7.14 34	6.78 29	8.71 32	12.90 31	14.90 18
1955	0.10 24	0.10 22	0.16 21	0.24 19	0.39 17	0.83 15	1.04 10	1.41 7	2.58 5	4.78 3
1956	1.00 33	1.13 33	1.21 33	1.26 31	1.53 27	2.42 24	2.64 19	3.32 17	5.12 17	54.50 33
1957	0.00 9	0.00 7	0.14 20	0.20 18	0.35 16	0.69 14	0.96 9	2.03 11	3.73 7	25.70 22
1958	0.20 25	0.40 27	0.53 26	0.76 27	1.02 25	1.12 18	1.86 14	2.70 13	4.07 9	30.20 27
1959	0.20 26	0.33 25	0.49 25	0.66 25	2.20 31	6.86 33	7.00 30	7.20 29	8.57 30	50.60 30
1960	0.00 10	0.00 8	0.00 6	0.00 4	0.13 10	2.58 25	3.91 25	4.85 25	6.54 25	14.30 16
1961	0.00 11	0.00 9	0.00 7	0.00 5	0.07 9	0.56 13	2.23 16	2.51 12	6.44 24	7.09 7
1962	0.00 12	0.00 10	0.00 8	0.00 6	0.02 6	0.06 4	0.24 3	0.63 4	2.30 4	4.58 1
1963	0.00 13	0.03 21	0.10 19	0.37 21	0.78 21	2.07 23	2.65 20	4.43 21	5.78 21	14.60 17
1964	0.00 14	0.00 11	0.00 9	0.00 7	0.00 2	0.20 7	0.42 5	0.57 3	1.87 2	5.08 4
1965	0.00 15	0.00 12	0.01 16	0.04 14	0.14 11	0.18 5	1.15 12	1.81 10	4.47 12	36.00 28
1966	1.90 36	2.03 36	2.59 36	3.29 36	4.06 35	7.71 35	8.46 34	9.38 33	46.30 36	74.00 35
1967	0.00 16	0.01 19	0.03 17	0.09 16	0.71 20	3.55 27	4.55 27	6.49 27	7.41 27	18.20 21
1968	0.01 23	0.02 20	0.07 18	0.11 17	0.24 13	0.44 11	1.53 13	3.15 14	4.74 13	13.70 14
1969	0.00 17	0.00 13	0.00 10	0.03 13	0.04 8	0.20 6	4.35 26	4.54 24	5.99 22	15.00 19
1970	0.00 18	0.00 14	0.00 11	0.00 8	0.28 14	0.38 10	2.48 17	4.19 20	6.38 23	10.60 9
1971	0.00 19	0.00 15	0.00 12	0.00 9	0.00 3	0.01 3	0.27 4	0.25 2	1.05 1	4.61 2
1972	0.00 20	0.00 16	0.00 13	0.02 12	0.30 15	0.54 12	0.78 8	8.42 31	13.20 32	17.30 20
1973	0.00 21	0.00 17	0.00 14	0.00 10	0.00 4	0.00 1	0.00 1	0.23 1	2.23 3	10.60 10
1974	0.00 22	0.00 18	0.00 15	0.00 11	0.00 5	0.01 2	0.21 2	1.16 5	2.82 6	6.22 5

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## BEAVER RIVER NEAR GUYMON, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1938	5080.0 8	2570.0 6	1160.0 6	548.0 7	283.0 9	217.0 7	183.0 4	159.0 2	106.0 2	54.9 3
1939	2460.0 12	1460.0 9	696.0 12	427.0 11	222.0 11	128.0 11	92.5 12	78.1 11	57.8 10	32.7 11
1940	2450.0 13	963.0 14	426.0 14	347.0 13	198.0 13	108.0 14	78.9 16	74.3 13	50.8 13	28.2 15
1941	14700.0 1	7540.0 1	3490.0 1	1650.0 1	826.0 1	457.0 1	396.0 1	331.0 1	269.0 1	138.0 1
1942	5370.0 6	3020.0 4	1340.0 5	644.0 5	331.0 6	270.0 3	187.0 3	143.0 5	97.7 5	65.7 2
1943	406.0 29	176.0 28	76.4 31	35.8 33	22.8 32	15.0 31	11.6 33	9.5 34	8.5 35	7.0 33
1944	412.0 28	162.0 30	79.4 30	48.8 29	28.4 30	25.9 29	21.7 28	20.9 26	17.8 24	10.4 27
1945	634.0 25	364.0 26	199.0 25	135.0 23	68.4 23	38.7 23	26.5 24	20.9 27	16.9 26	11.1 25
1946	2780.0 10	1210.0 12	940.0 8	610.0 6	312.0 7	158.0 9	112.0 9	107.0 8	71.4 8	39.2 8
1947	1760.0 19	709.0 19	319.0 20	158.0 20	84.3 22	53.7 19	40.8 18	33.3 17	26.6 18	23.3 17
1948	2580.0 11	916.0 15	406.0 15	197.0 15	174.0 14	92.2 16	96.3 11	75.0 12	52.0 12	28.6 14
1949	324.0 30	138.0 31	111.0 28	65.3 27	52.4 26	35.4 25	28.3 23	23.7 23	19.5 23	12.9 23
1950	1820.0 18	1120.0 13	812.0 10	494.0 8	283.0 8	235.0 6	179.0 6	136.0 6	92.3 7	49.6 7
1951	2400.0 14	1340.0 10	714.0 11	348.0 12	200.0 12	116.0 13	83.8 15	65.1 16	47.0 14	28.9 13
1952	600.0 27	297.0 27	130.0 27	61.7 28	36.2 29	19.1 30	15.6 30	13.9 30	12.0 30	8.6 30
1953	323.0 31	118.0 33	88.0 29	47.7 30	38.4 28	28.4 28	22.4 27	18.1 28	14.3 29	9.9 29
1954	1420.0 23	514.0 23	226.0 24	111.0 25	58.3 25	34.0 26	25.4 26	21.9 24	16.7 27	10.7 26
1955	5100.0 7	2880.0 5	1580.0 3	843.0 2	465.0 2	276.0 2	200.0 2	154.0 3	104.0 3	53.7 5
1956	1590.0 21	657.0 21	294.0 21	142.0 22	112.0 16	97.3 15	84.9 13	66.2 14	45.8 16	25.4 16
1957	3510.0 9	1340.0 11	604.0 13	293.0 14	160.0 15	132.0 10	100.0 10	78.9 10	57.0 11	30.3 12
1958	8410.0 3	3320.0 3	1600.0 2	752.0 3	455.0 3	237.0 5	173.0 7	136.0 7	92.6 6	49.6 6
1959	1850.0 17	806.0 16	350.0 17	166.0 17	95.5 18	49.0 22	33.7 22	27.7 22	21.2 22	14.0 19
1960	233.0 33	168.0 29	75.1 32	36.1 32	23.1 31	12.9 33	11.3 34	10.7 33	9.6 32	8.2 31
1961	150.0 35	71.2 36	32.3 36	16.1 36	11.5 37	9.7 37	8.7 37	8.2 37	7.6 37	5.4 36
1962	1960.0 16	704.0 20	323.0 19	158.0 21	86.1 21	58.0 17	41.1 17	31.3 18	23.2 19	13.8 21
1963	136.0 36	91.7 35	40.9 35	22.2 35	18.9 35	12.7 34	9.9 35	8.8 36	8.6 34	6.6 34
1964	1000.0 2	3590.0 2	1560.0 4	736.0 4	381.0 5	193.0 8	130.0 8	98.4 9	67.3 9	34.5 10
1965	6000.0 5	2130.0 8	933.0 9	471.0 9	438.0 4	241.0 4	180.0 5	148.0 4	101.0 4	54.4 4
1966	6050.0 4	2250.0 7	977.0 7	463.0 10	236.0 10	123.0 12	84.7 14	66.0 15	46.5 15	37.6 9
1967	643.0 24	443.0 24	248.0 22	159.0 19	96.5 17	54.7 18	37.2 20	29.1 21	21.8 21	13.7 22
1968	2240.0 15	777.0 18	343.0 18	163.0 18	90.2 20	53.3 20	37.3 19	31.0 19	23.1 20	14.0 20
1969	1530.0 22	522.0 22	227.0 23	118.0 24	61.6 24	31.6 27	21.4 29	18.0 29	16.6 28	12.0 24
1970	88.0 37	43.3 37	24.9 37	15.5 37	13.0 36	9.9 36	9.5 36	9.0 35	8.0 36	4.8 37
1971	616.0 26	375.0 25	168.0 26	80.2 26	40.8 27	37.7 24	26.1 25	21.1 25	17.1 25	10.2 28
1972	1730.0 20	783.0 17	353.0 16	173.0 16	93.1 19	51.4 21	36.8 21	29.5 20	29.0 17	17.0 18
1973	200.0 34	109.0 34	54.3 34	32.3 34	19.1 34	14.6 32	12.7 32	11.8 31	11.0 31	7.5 32
1974	304.0 32	128.0 32	73.2 33	41.2 31	20.9 33	12.1 35	13.8 31	11.2 32	9.4 33	6.6 35

## MONTHLY DURATION TABLE

BEAVER RIVER NEAR GUYMON, OKLAHOMA

PERIOD 1937-1974

CLASS LIMIT	TOTAL PERCENT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
0.00	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0.01	93.4	100.0	99.5	99.6	99.7	97.2	94.1	82.7	74.9	78.1	95.1	99.8	100.0
0.02	93.3	100.0	99.5	99.6	99.7	97.2	94.1	82.6	74.7	78.0	95.0	99.8	100.0
0.04	93.2	100.0	99.5	99.6	99.7	97.2	94.0	82.4	74.4	77.7	94.8	99.8	100.0
0.05	93.2	100.0	99.5	99.6	99.7	97.2	94.0	82.1	74.3	77.5	94.8	99.8	100.0
0.08	93.0	100.0	99.5	99.6	99.7	97.2	94.0	81.5	73.6	76.8	94.7	99.8	100.0
0.12	92.1	100.0	99.5	99.6	99.7	96.5	93.1	79.6	72.4	72.9	93.3	99.8	100.0
0.19	91.8	100.0	99.5	99.6	99.7	96.4	92.8	79.1	71.9	71.5	92.3	99.8	100.0
0.28	91.0	100.0	99.5	99.6	99.7	95.9	91.5	77.2	70.3	67.9	91.1	99.8	100.0
0.43	89.4	100.0	99.5	99.6	99.7	94.4	88.6	73.1	67.5	62.7	89.2	99.3	100.0
0.66	87.9	100.0	99.5	99.6	99.7	93.9	85.1	69.6	63.8	59.7	86.1	98.6	100.0
1.00	85.4	100.0	99.5	99.6	99.6	92.9	78.6	65.4	58.8	53.1	79.9	98.0	99.8
1.50	78.2	98.7	99.5	99.0	99.0	87.0	65.0	56.5	47.3	38.2	60.5	90.1	98.6
2.30	71.5	94.4	96.5	97.6	97.4	78.6	56.0	50.0	38.3	29.3	46.3	81.4	94.2
3.50	65.4	89.1	94.5	96.4	89.1	68.3	49.2	42.6	32.1	23.5	35.5	76.1	90.3
5.30	54.0	73.5	87.4	89.6	69.5	50.3	42.7	34.9	27.0	18.8	24.9	57.2	74.4
8.10	31.3	39.9	52.7	49.2	32.3	33.7	33.6	26.9	22.1	13.2	13.4	25.4	34.1
12.00	16.9	15.5	18.8	19.1	17.5	24.3	25.9	23.2	18.0	8.7	9.4	11.8	11.0
19.00	8.4	3.8	4.0	4.4	6.3	14.8	19.2	17.6	13.6	6.8	4.9	3.0	1.7
28.00	5.6	0.9	1.1	1.6	3.6	10.1	13.4	14.6	10.7	6.0	3.3	0.8	0.3
43.00	4.1	0.2	0.1	0.9	2.3	7.8	10.3	11.7	8.4	5.0	2.3	0.3	0.0
66.00	3.0	0.0	0.0	0.3	1.1	5.7	7.8	8.7	6.5	3.3	1.7	0.3	0.0
100.00	2.3	0.0	0.0	0.2	0.7	4.6	5.9	7.0	5.3	2.5	1.4	0.3	0.0
150.00	1.8	0.0	0.0	0.1	0.5	3.7	4.3	5.8	4.0	2.3	1.1	0.2	0.0
230.00	1.3	0.0	0.0	0.1	0.4	2.7	2.9	3.4	3.2	1.9	1.0	0.2	0.0
350.00	1.1	0.0	0.0	0.1	0.4	2.0	2.3	2.9	2.4	1.5	0.8	0.2	0.0
530.00	0.8	0.0	0.0	0.0	0.4	1.9	1.8	2.0	1.7	1.4	0.6	0.1	0.0
810.00	0.6	0.0	0.0	0.0	0.4	1.3	1.5	1.0	1.1	1.1	0.3	0.1	0.0
1200.00	0.5	0.0	0.0	0.0	0.4	1.1	1.3	0.8	1.0	0.6	0.3	0.1	0.0
1900.00	0.3	0.0	0.0	0.0	0.2	0.6	1.0	0.3	0.3	0.5	0.1	0.0	0.0
2800.00	0.1	0.0	0.0	0.0	0.1	0.3	0.4	0.3	0.1	0.5	0.1	0.0	0.0
4300.00	0.1	0.0	0.0	0.0	0.1	0.2	0.1	0.1	0.0	0.4	0.1	0.0	0.0
6600.00	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.2	0.0	0.0	0.0
10000.00	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0

## STATISTICS OF ANNUAL DISCHARGE FOR WATER YEARS, 1938-74

Units of annual Discharge	Mean	Standard Deviation	Coefficient of Variation	Skew Coefficient	First Order Serial Correlation Coefficient
CFS	26.5	25.4	0.96	2.58	0.31
LOGS of CFS	1.273	0.359		0.319	0.403

## ARKANSAS RIVER BASIN

203

07233000 COLDWATER CREEK NEAR HARDESTY, OKLA.

LOCATION.--Lat 36°38'38", long 101°12'38", in NW 1/4 NE 1/4 sec.15, T.2 N., R.17 E., on downstream side of piling near center of bridge on State Highway 3, 2.0 mi (3.2 km) northwest of Hardesty and at mile 5.7 (9.2 km).

DRAINAGE AREA.--1,967 mi<sup>2</sup> (5,095 km<sup>2</sup>), of which 1,200 mi<sup>2</sup> (3,108 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD.--June 1939 to September 1964.

AVERAGE DISCHARGE.--25 years (1940-64), 15.5 ft<sup>3</sup>/s (0.439 m<sup>3</sup>/s).

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

## COLDWATER CREEK NEAR HARDESTY, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34		
YEAR	NUMBER OF DAYS IN CLASS																																		CFS-DAYS		
1940	220						33	37	18	2	7	8	5	9	6	3	3	1	1	2	5	2			3					1						7636.0	
1941	114					36	30	33	22	57	15	16	14	6	7	7	3	1	1	1				1	1											3496.0	
1942	116					8	10	15	19	95	34	18	19	10	8	3	4	3	1				1	1												3506.0	
1943	141					20	33	48	39	37	22	10	6		2	2	2						3													2261.0	
1944	205					8	12	12	12	39	35	22	6	5	2	2	2	2					1					1								2945.0	
1945	155	3	4	3	2	1	10	15	27	17	37	50	17	14	5		2	2	2		1															1241.0	
1946	140	9	6	4	12	7	19	30	26	37	41	12	9	1	2	2	2	1		1	1	2							1							2888.9	
1947	42	3		2	2	2	10		5	8	5	30	51	71	67	25	11	12	3	4		3	1	2	1	1				1			1		2	34828.9	
1948	86	6	5	2	6	1	10	7	29	23	42	49	29	22	10	6	6	4	1	2																1991.4	
1949	46	6	6	3	5	2	13	9	13	12	40	84	56	37	17	5	5	1			1	1	1					2								4453.3	
1950	18	1	1		4		7	4	16	31	52	100	32	10	6	16	21	14	3	4	5	3	1	4	3	1	4	2	1		1					22306.2	
1951	56	7	2	2		1	1	1	7	12	9	35	127	33	28	16	9	6	1	1	2	1	1		2	2				1	1	1				14902.6	
1952	143	1	2			1	2	4	6	6	21	63	76	26	7	3	1	2		1			1		1											1486.4	
1953	206	3	1	1	18		4	12	16	24	50	22	5	1							1															646.4	
1954	194	1	4	2		2	9	14	29	64	14	10	12	3	3	2		2																		665.1	
1955	176	5	3	3	6	4	9	25	22	38	6	7	9	9	13	6	6	3	2	1	1	1		1	3	3	2	1								9568.8	
1956	115	7	4	2	4	2	2	13	21	36	57	65	15	1	6	3	4	3	3	1	1		1													1879.5	
1957	94	6		3	6	2	4	13	12	15	34	44	39	25	30	15	11	4	4	1				1					1	1						5529.7	
1958	47	3	2	1	1		1	14	7	23	62	102	76	8	5	3	2	2	2	1		1	1									1				5519.1	
1959	88					1	1	12	15	19	37	68	62	28	15	4	2	1	5	1	1	2	1					1								4100.9	
1960	136	3	2	1	7	3	10	10	25	37	58	41	15	8	2	2	1	2	1				1	1												1641.6	
1961	67	3	4	2	8	1	3	4	13	42	58	89	32	19	10	3	1	2	1	1	1									1						3204.1	
1962	57	2	3	1	4	3	3	4	25	35	84	76	30	16	8	3		3	1	3		3		1												2890.2	
1963	92	4		1	1		4	25	26	38	96	55	7	4	3	2	1	2	2					2													1759.9
1964	180	4		2	8	8	6	10	23	61	50	11	2			1																					523.0

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	2934	9132	100.0	9	2.30	719	4951	54.2	18	53.0	43	192	2.1	27	1200	6	17	.1
1	0.10	76	6198	67.9	10	3.30	989	4232	46.3	19	75.0	29	149	1.6	28	1700	3	11	.1
2	0.20	46	6122	67.0	11	4.60	1281	3243	35.5	20	110.0	19	120	1.3	29	2500	3	8	.0
3	0.30	37	6076	66.5	12	6.60	765	1962	21.5	21	150.0	23	101	1.1	30	3500	3	5	.0
4	0.40	98	6039	66.1	13	9.30	388	1197	13.1	22	210.0	13	78	0.9	31	4900		2	.0
5	0.60	42	5941	65.1	14	13.00	288	809	8.9	23	300.0	15	65	0.7	32	7000		2	.0
6	0.80	235	5899	64.6	15	19.00	142	521	5.7	24	430.0	11	50	0.5	33	9900	2	2	.0
7	1.10	228	5664	62.0	16	26.00	108	379	4.2	25	610.0	11	39	0.4	34				
8	1.60	485	5436	59.5	17	37.00	79	271	3.0	26	860.0	11	28	0.3					

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## COLDWATER CREEK NEAR HARDESTY, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1941	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.73 20	2.07 20	2.17 18	3.19 16	22.20 19
1942	0.00 2	0.00 2	0.00 2	0.00 2	0.00 2	1.45 22	3.91 24	4.57 22	4.94 19	11.10 15
1943	0.00 3	0.00 3	0.00 3	0.00 3	0.00 3	0.03 14	0.08 11	3.19 19	5.11 20	9.82 13
1944	0.00 4	0.00 4	0.00 4	0.00 4	0.00 4	0.00 1	0.00 1	0.00 1	0.00 1	4.74 6
1945	0.00 5	0.00 5	0.00 5	0.00 5	0.00 5	0.00 2	0.00 2	0.01 4	1.42 5	7.94 11
1946	0.00 6	0.00 6	0.00 6	0.00 6	0.00 6	0.55 18	0.42 14	0.62 10	1.55 7	2.73 3
1947	0.00 7	0.00 7	0.00 7	0.00 7	0.00 7	0.00 3	1.04 17	9.81 24	13.50 23	64.90 23
1948	0.00 8	0.00 8	0.00 8	0.00 8	0.00 8	0.00 4	0.07 10	1.22 12	2.48 12	40.20 22
1949	0.00 9	0.00 9	0.00 9	0.00 9	0.00 9	0.69 19	2.24 21	3.25 20	4.00 18	5.10 8
1950	0.00 10	0.00 10	0.00 10	0.00 10	0.17 22	0.37 17	0.90 15	1.61 14	3.04 15	12.10 16
1951	0.00 11	0.00 11	0.07 24	0.54 24	1.23 24	2.46 24	3.56 23	6.31 23	14.60 24	65.90 24
1952	0.00 12	0.00 12	0.00 11	0.00 11	0.00 10	0.00 5	0.96 16	1.89 15	2.93 14	35.70 21
1953	0.00 13	0.00 13	0.00 12	0.00 12	0.00 11	0.00 6	0.00 3	0.02 5	0.77 4	2.87 4
1954	0.00 14	0.00 14	0.00 13	0.00 13	0.00 12	0.00 7	0.00 4	0.00 2	0.60 3	1.56 2
1955	0.00 15	0.00 15	0.00 14	0.00 14	0.00 13	0.00 8	0.00 5	0.00 3	0.21 2	1.37 1
1956	0.00 16	0.00 16	0.00 15	0.00 15	0.00 14	0.00 9	0.01 7	0.44 7	1.85 10	27.40 20
1957	0.00 17	0.00 17	0.00 16	0.00 16	0.00 15	0.00 10	0.00 6	0.43 6	2.01 11	5.78 9
1958	0.00 18	0.00 18	0.00 17	0.00 17	0.00 16	0.25 16	1.32 18	2.16 16	3.25 17	15.30 17
1959	0.00 19	0.00 19	0.00 18	0.00 18	0.08 23	1.64 23	3.25 22	3.77 21	5.71 22	15.80 18
1960	0.00 20	0.00 20	0.00 19	0.00 19	0.00 17	0.00 11	0.02 8	0.55 8	1.68 8	9.83 14
1961	0.00 21	0.00 21	0.00 20	0.00 20	0.00 18	0.06 15	0.15 12	1.42 13	5.35 21	8.69 12
1962	0.00 22	0.00 22	0.00 21	0.00 21	0.00 19	0.00 12	0.04 9	0.57 9	1.70 9	4.77 7
1963	0.00 23	0.00 23	0.00 22	0.00 22	0.15 21	0.97 21	1.51 19	2.16 17	2.51 13	7.87 10
1964	0.00 24	0.00 24	0.00 23	0.00 23	0.00 20	0.00 13	0.18 13	0.77 11	1.52 6	4.03 5

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## COLDWATER CREEK NEAR HARDESTY, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1940	2960.0 5	1080.0 5	487.0 5	284.0 5	199.0 5	109.0 5	74.1 5	57.1 5	41.1 5	20.9 5
1941	720.0 13	405.0 12	182.0 12	96.7 11	58.4 11	37.0 11	27.8 10	23.2 10	16.7 10	9.6 10
1942	531.0 14	321.0 14	154.0 14	76.3 14	44.7 14	29.3 13	24.2 12	20.8 11	15.8 11	9.6 11
1943	400.0 15	258.0 15	111.0 15	51.7 15	25.8 16	13.7 16	10.4 17	9.1 17	7.4 17	6.2 16
1944	1020.0 11	372.0 13	166.0 13	84.9 13	47.2 13	27.4 14	22.6 13	18.7 13	14.5 13	8.0 13
1945	148.0 21	68.7 21	29.4 21	13.7 22	8.6 22	7.2 21	6.1 22	5.5 22	4.8 22	3.4 22
1946	1650.0 6	596.0 8	287.0 8	136.0 8	68.5 10	39.3 10	26.6 11	20.6 12	14.7 12	7.9 14
1947	11300.0 1	5540.0 1	2710.0 1	1280.0 1	648.0 1	334.0 1	226.0 2	172.0 2	116.0 2	95.4 1
1948	100.0 23	54.0 22	29.2 22	18.7 21	15.7 18	12.0 17	9.6 18	8.4 18	7.4 18	5.4 17
1949	960.0 12	672.0 6	301.0 7	144.0 7	75.1 7	49.4 8	36.4 8	29.1 8	21.5 8	12.2 8
1950	4760.0 2	1920.0 3	997.0 3	662.0 3	380.0 2	310.0 2	234.0 1	176.0 1	117.0 1	61.1 2
1951	4280.0 3	2540.0 2	1430.0 2	686.0 2	360.0 3	185.0 3	127.0 3	100.0 3	68.8 3	40.8 3
1952	235.0 19	119.0 18	51.2 18	23.9 18	13.5 19	7.2 22	6.7 21	6.2 21	6.0 20	4.1 21
1953	145.0 22	52.7 23	22.6 23	10.5 23	5.3 24	4.3 24	4.0 23	3.6 23	2.9 24	1.8 23
1954	47.0 24	21.0 24	9.8 24	7.6 24	6.2 23	4.4 23	3.7 24	3.4 24	3.3 23	1.8 24
1955	1500.0 7	629.0 7	427.0 6	334.0 4	210.0 4	139.0 4	104.0 4	78.2 4	52.2 4	26.2 4
1956	215.0 20	78.9 20	39.6 20	20.4 20	13.5 20	11.0 19	10.7 16	10.0 16	7.9 16	5.1 18
1957	1380.0 8	589.0 9	269.0 9	133.0 10	74.2 8	59.7 7	46.4 7	37.4 6	28.4 6	15.1 6
1958	3040.0 4	1110.0 4	493.0 4	236.0 6	128.0 6	69.7 6	47.2 6	35.8 7	25.9 7	15.1 7
1959	1100.0 10	480.0 10	238.0 10	135.0 9	71.2 9	40.2 9	30.2 9	24.4 9	18.5 9	11.2 9
1960	302.0 17	209.0 16	99.5 16	46.6 17	23.3 17	11.7 18	7.9 19	7.2 20	5.7 21	4.5 20
1961	1270.0 9	445.0 11	195.0 11	93.9 12	49.1 12	26.2 15	18.6 15	15.0 15	12.4 15	8.8 12
1962	394.0 16	169.0 17	90.0 17	47.7 16	37.1 15	31.0 12	21.8 14	17.5 14	13.2 14	7.9 15
1963	246.0 18	96.6 19	43.3 19	21.2 19	12.2 21	10.7 20	7.9 20	6.3 19	6.6 19	4.8 19
1964	22.0 25	10.5 25	5.6 25	4.2 25	3.8 25	3.7 25	3.4 25	3.3 25	2.7 25	1.4 25

## STATISTICS OF ANNUAL DISCHARGE FOR WATER YEARS, 1940-64

Units of annual Discharge	Mean	Standard Deviation	Coefficient of Variation	Skew Coefficient	First Order Serial Correlation Coefficient
CFS	15.5	21.4	1.38	2.80	0.01
LOGS of CFS	0.943	0.451		0.427	0.158



ARKANSAS RIVER BASIN

205

07234000 BEAVER RIVER AT BEAVER, OKLA.  
(Headwater of the North Canadian River)

LOCATION.--Lat 36°49'20", long 100°31'05", in SW 1/4 sec.7, T.4 N., R.24 E., Beaver County, near right bank on downstream side of pier of bridge on U.S. Highway 270 at Beaver, 1.5 mi (2.4 km) downstream from Home Creek, 5 mi (8.0 km) upstream from Clear Creek, and at mile 576.0 (926.8 km).

DRAINAGE AREA.--7,955 mi<sup>2</sup> (20,603 km<sup>2</sup>), of which 4,270 mi<sup>2</sup> (11,059 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD.--October 1937 to September 1974.

AVERAGE DISCHARGE.--37 years (1938-74), 112 ft<sup>3</sup>/s (3.17 m<sup>3</sup>/s).

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

BEAVER RIVER AT BEAVER, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS	
1938	14										6		5	3	96	39	29	63	23	29	17	13	6	2	5	3	3	3	4	1			1			59844.0
1939	55									19		16	18	16	17	59	45	41	25	12	8	7	5	4	5	3	3	4	1		1	1			67176.0	
1940	215									12		7	15	9	10	18	14	12	7	8	7	10	6	6	2	3	1	3	1						33136.0	
1941	72									14		6	12	6	19	37	41	38	18	19	23	17	10	10	10	4	3	2	3	1					74665.0	
1942	56											11	7	17	9	8	45	84	49	35	11	11	5	3	7	1	2	1		3				77118.0		
1943	143									8		7	3	23	17	38	36	52	17	7	5	3	2	2		1	1							11496.0		
1944	202									5		4	7	6	4	17	25	28	22	10	15	5	7	6	1	1		1						18665.0		
1945	138						6	2	5	3	3	3	8	16	19	23	37	29	20	20	13	8	2	3	2	2	1	2							14353.9	
1946	153						2	1	4	10	7	6	3	10	20	24	40	23	10	12	9	6	8	6	6	2	3								1621.0	
1947	26						1	1	3	1	1	7	8	9	4	6	12	17	45	45	74	49	19	17	8	1	2	2	1	1	2	2			1	131664.2
1948	25						3	5	13	6	7	8	14	12	22	26	34	33	55	37	22	16	12	9	3	1	2	1							23197.1	
1949	27						1	2	6	7	7	6	3	9	8	18	58	47	51	46	28	12	5	6	6	4	2	3	2	1					42061.6	
1950	11						4	6	2		6	10	9	7	9	18	46	81	32	18	8	13	9	18	15	8	13	7	10	3	2				130621.6	
1951	15						2		3	2	7	4	6	2	10	5	12	36	96	68	25	20	14	15	8	5	4		1			3	1	1	120753.9	
1952	111						2	2	1		9	5	7	5	8	5	53	35	69	37	7	2	3	4	1										9536.3	
1953	147						4	2	3	3	4	6	19	10	14	16	39	26	23	13	7	6	5	3	7	2	1	2	1	2					29879.2	
1954	94						3	3	6	3	6	3	2	5	16	20	29	43	53	37	22	11	6	4	1	3	1								12919.8	
1955	224						1	2	3	3	3	6	6	5	6	7	8	10	8	6	11	17	10	2	5	3	7	4	2	5	2	2				106322.9
1956	165						4	2	2	1	4	6	2	10	17	28	38	21	26	12	8	8	4	1	4	1	1	1	1						12121.9	
1957	193						2	1	1		6	3	4	5	2	5	12	13	16	28	19	19	14	8	3	3	2	4	2						34853.7	
1958	67						1	1	3	2	6	3	5	26	20	25	37	45	42	30	10	9	6	7	9	3	4	2			1	1			42872.5	
1959	71								3		2		9	2	20	19	27	64	63	47	13	7	10	2	1	2	3								18762.1	
1960	185						2	2	2	3	9	3	6	18	11	16	16	24	32	13	10	7		2		2		1	2							14863.4
1961	36						4	2	2		4	3	2	7	15	16	69	79	30	26	23	21	5	9	6	2	1	2	1						27687.6	
1962	73						3	4	5	6	7	4	3	9	8	12	18	70	66	30	19	6	7	5	4	3	1	2							22526.3	
1963	103						9	10	9	7	10	10	9	9	13	30	54	54	6	5	5	4	2	2	4		1								13650.0	
1964	144						17	7	9	9	8	3	8	7	11	25	32	32	19	18	7	3	3	1	1			1	1						11104.0	
1965	62						1	5	1	1	4	4	5	6	7	17	41	61	42	24	13	20	9	8	13	4	2	7	2	1	3	2			105422.5	
1966	59	1	2	2	3	3	10	10	7	3	10	1	4	9	14	7	24	74	66	32	10	6	3	1	2	1		1							12431.6	
1967	21						24	14	17	12	3	4	17	15	16	23	25	58	24	12	16	13	12	12	9	5	4	5	3	1					31979.5	
1968							1	1	1	5	1	3	5	20	26	11	16	32	41	31	54	33	18	20	12	8	7	2	4	1			1		36967.1	
1969							1	6	5	3	2	4	7	6	8	10	4	6	4	6	24	95	69	54	18	12	6	5	1	2		2	1			38177.6
1970	9	6	4	7	12	4	9	6	12	7	4	10	8	12	10	19	70	100	22	14	6	4	5	2	1	1		1							11667.9	
1971	56	4	4			26	32	26	11	18	7	4	6	4	11	19	23	42	17	19	10	9	6	4	3	1	1		2						11441.7	
1972	60					2	1	1	1	1	1	3	2	4	4	22	13	43	43	41	50	29	13	12	5	3	2	1	1	1	3	3			61004.6	
1973	36	4	4	1	7	7	16	8	13	5	6	6	7	10	3	3	17	36	71	36	27	17	10	6	2	4	2	1							24924.2	
1974	105	2	5	1	1	3	16	24	18	18	15	18	14	16	13	6	31	33	13	7	4														2614.9	

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	3173	13514	100.0	9	0.50	125	9666	71.5	18	28.0	1447	4559	33.7	27	1700	65	168	1.2
1	0.01	17	10341	76.5	10	0.70	255	9541	70.6	19	45.0	1012	3112	23.0	28	2700	45	103	.7
2	0.02	22	10324	76.4	11	1.20	198	9286	68.7	20	71.0	636	2100	15.5	29	4200	25	58	.4
3	0.03	19	10302	76.2	12	1.90	257	9088	67.2	21	110.0	454	1464	10.8	30	6700	18	33	.2
4	0.04	56	10283	76.1	13	2.90	367	8831	65.3	22	180.0	282	1010	7.5	31	11000	12	15	.1
5	0.07	78	10227	75.7	14	4.60	565	8464	62.6	23	280.0	212	728	5.4	32	17000	1	3	.0
6	0.10	170	10149	75.1	15	7.30	619	7899	58.5	24	440.0	168	516	3.8	33	26000	2	2	.0
7	0.20	141	9979	73.8	16	11.00	1231	7280	53.9	25	690.0	95	348	2.6	34				
8	0.30	172	9838	72.8	17	18.00	1490	6049	44.8	26	1100.0	85	253	1.9					



LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## BEAVER RIVER AT BEAVER, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1939	0.00 1	0.00 1	0.00 1	0.57 35	1.00 30	6.85 29	10.60 25	16.30 24	19.40 22	171.00 29
1940	0.00 2	0.00 2	0.00 2	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	2.28 3	173.00 30
1941	0.00 3	0.00 3	0.00 3	0.00 2	0.00 2	0.27 19	3.62 19	8.22 20	17.20 20	98.20 23
1942	0.00 4	0.00 4	0.00 4	0.00 3	37.10 36	47.30 36	50.20 36	52.00 36	180.00 36	282.00 31
1943	0.00 5	0.00 5	0.00 5	0.00 4	0.00 3	1.68 23	5.98 22	18.30 26	43.80 28	149.00 27
1944	0.00 6	0.00 6	0.00 6	0.00 5	0.00 4	0.00 2	0.00 2	0.00 2	0.61 2	16.40 2
1945	0.00 7	0.00 7	0.00 7	0.00 6	0.00 5	0.00 3	0.00 3	0.00 3	6.41 9	49.00 13
1946	0.00 8	0.00 8	0.00 8	0.00 7	0.00 6	0.00 4	2.86 18	6.08 17	12.30 15	40.20 10
1947	0.00 9	0.00 9	0.00 9	0.00 8	0.00 7	24.70 33	22.50 31	30.50 32	71.70 34	324.00 35
1948	0.00 10	0.00 10	0.00 10	0.00 9	0.00 8	0.74 20	1.75 17	3.22 14	13.60 18	94.50 21
1949	0.00 11	0.00 11	0.00 11	0.00 10	0.00 9	4.44 27	10.70 26	12.60 22	23.10 25	56.30 15
1950	0.00 12	0.03 33	0.10 34	0.31 34	2.16 32	4.25 26	24.90 33	26.10 31	45.20 29	127.00 25
1951	0.00 13	0.00 12	0.00 12	0.07 30	2.07 31	4.53 28	22.80 32	46.40 35	69.10 33	365.00 36
1952	0.00 14	0.00 13	0.00 13	0.00 11	0.39 27	0.88 21	4.40 20	8.02 19	17.20 21	311.00 34
1953	0.00 15	0.00 14	0.00 14	0.00 12	0.00 10	0.00 5	0.00 4	0.00 4	3.03 5	16.40 3
1954	0.00 16	0.00 15	0.00 15	0.00 13	0.00 11	9.54 31	16.60 29	19.00 27	21.20 24	89.10 18
1955	0.00 17	0.00 16	0.00 16	0.00 14	0.00 12	0.00 6	0.00 5	0.00 5	2.59 4	25.60 4
1956	0.00 18	0.00 17	0.00 17	0.00 15	0.00 13	0.00 7	0.44 12	3.00 13	6.60 10	293.00 32
1957	0.00 19	0.00 18	0.00 18	0.00 16	0.00 14	0.00 8	0.00 6	0.00 6	0.00 1	34.10 8
1958	0.00 20	0.00 19	0.00 19	0.00 17	0.00 15	0.00 9	0.71 13	2.28 12	5.73 8	96.30 22
1959	0.00 21	0.00 20	0.27 35	0.30 33	3.80 34	10.60 32	16.80 30	21.40 30	27.10 26	126.00 24
1960	0.00 22	0.00 21	0.00 20	0.00 18	0.00 16	0.00 10	0.00 7	0.05 7	7.57 12	46.80 12
1961	0.00 23	0.00 22	0.00 21	0.00 19	0.00 17	0.00 11	9.14 24	15.20 23	61.50 32	71.30 17
1962	0.00 24	0.00 23	0.00 22	0.00 20	0.00 18	0.00 12	1.25 15	5.61 16	12.30 16	46.20 11
1963	0.00 25	0.00 24	0.00 23	0.00 21	0.23 26	1.20 22	7.76 23	10.60 21	15.10 19	59.10 16
1964	0.00 26	0.00 25	0.00 24	0.00 22	0.00 19	0.00 13	0.16 11	1.16 10	10.90 14	35.10 9
1965	0.00 27	0.00 26	0.00 25	0.00 23	0.00 20	0.00 14	0.00 8	0.40 9	7.08 11	31.20 7
1966	0.20 36	0.30 36	0.44 36	1.86 36	13.50 35	30.30 34	30.20 34	36.20 33	50.30 30	307.00 33
1967	0.00 28	0.00 27	0.00 26	0.00 24	0.07 23	0.12 17	1.35 14	4.34 15	7.72 13	12.60 1
1968	0.00 29	0.00 28	0.07 32	0.13 31	0.44 28	2.88 25	5.16 21	6.74 18	12.80 17	91.10 19
1969	0.03 35	0.06 35	0.10 33	0.23 32	3.17 33	32.80 35	35.40 35	42.40 34	108.00 35	153.00 28
1970	0.02 34	0.03 34	0.03 31	0.04 29	0.19 25	2.77 24	15.90 28	18.10 25	19.90 23	55.80 14
1971	0.00 30	0.00 29	0.00 27	0.01 27	0.02 22	0.06 16	0.07 10	0.07 8	3.06 6	26.70 5
1972	0.00 31	0.00 30	0.00 28	0.00 25	0.02 21	0.00 15	0.04 9	20.30 28	51.20 31	91.20 20
1973	0.00 32	0.00 31	0.00 29	0.04 28	1.36 29	7.43 30	14.20 27	21.00 29	28.30 27	145.00 26
1974	0.00 33	0.00 32	0.00 30	0.00 26	0.09 24	0.20 18	0.75 14	1.67 11	4.12 7	31.20 6

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## BEAVER RIVER AT BEAVER, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1938	14600.0 3	84400.0 4	41500.0 5	19700.0 7	9930.0 7	517.0 11	402.0 10	443.0 7	316.0 8	164.0 10
1939	11300.0 7	47800.0 10	31300.0 8	26000.0 5	13500.0 6	786.0 6	642.0 6	510.0 6	353.0 7	184.0 8
1940	4440.0 16	27400.0 15	13400.0 16	955.0 15	855.0 10	461.0 12	315.0 14	244.0 15	178.0 15	90.5 16
1941	9590.0 10	62800.0 6	32700.0 7	19600.0 8	981.0 8	537.0 10	506.0 7	431.0 8	390.0 6	205.0 7
1942	10900.0 8	56400.0 9	27500.0 10	15000.0 9	801.0 13	694.0 7	495.0 8	382.0 9	269.0 4	211.0 6
1943	21900.0 28	13400.0 27	718.0 26	367.0 28	194.0 31	109.0 33	84.6 33	71.1 33	55.5 32	31.5 33
1944	27900.0 21	12200.0 30	575.0 31	346.0 30	266.0 25	216.0 21	153.0 21	125.0 21	97.5 22	51.0 24
1945	1800.0 32	885.0 34	393.0 35	318.0 31	245.0 26	179.0 22	121.0 25	92.4 26	72.4 25	39.3 27
1946	1390.0 35	857.0 35	607.0 30	477.0 23	268.0 24	158.0 25	121.0 26	104.0 25	71.7 26	44.5 25
1947	39900.0 1	21700.0 1	11800.0 2	5760.0 2	2960.0 2	1600.0 3	1090.0 4	844.0 4	575.0 4	361.0 1
1948	2170.0 29	13300.0 28	727.0 25	403.0 26	276.0 23	174.0 24	152.0 22	121.0 22	104.0 20	63.4 21
1949	5600.0 14	2150.0 17	1590.0 15	1070.0 12	812.0 12	559.0 9	390.0 11	303.0 12	218.0 12	115.0 12
1950	10000.0 9	5800.0 8	3840.0 6	3490.0 4	2330.0 3	1590.0 4	1310.0 1	1000.0 1	662.0 1	358.0 2
1951	26200.0 2	19400.0 2	12300.0 1	5990.0 1	3180.0 1	1740.0 1	1180.0 2	899.0 2	609.0 2	331.0 3
1952	544.0 36	378.0 36	257.0 36	143.0 34	82.3 36	67.1 34	57.1 36	52.1 36	43.2 36	26.1 36
1953	4880.0 15	2950.0 14	1870.0 13	1000.0 13	706.0 15	430.0 16	307.0 15	235.0 17	157.0 17	81.9 18
1954	2430.0 25	1380.0 25	645.0 28	405.0 32	185.0 32	111.0 32	88.9 31	72.3 32	50.7 34	35.4 29
1955	11700.0 5	8470.0 3	5760.0 3	3670.0 3	2060.0 5	1670.0 2	1150.0 3	878.0 3	578.0 3	291.0 4
1956	1870.0 31	1020.0 32	511.0 33	262.0 34	147.0 33	143.0 27	108.0 28	87.9 28	60.5 29	33.1 31
1957	4020.0 17	1830.0 20	859.0 23	579.0 22	351.0 20	327.0 17	281.0 17	259.0 17	189.0 13	95.5 15
1958	8180.0 12	3510.0 13	1970.0 12	966.0 14	697.0 9	560.0 8	424.0 9	321.0 10	224.0 11	117.0 11
1959	1630.0 34	1250.0 29	634.0 29	350.0 29	204.0 30	119.0 31	134.0 23	109.0 23	83.4 24	51.4 23
1960	3040.0 18	2590.0 16	1290.0 17	602.0 20	301.0 22	151.0 26	115.0 27	90.5 27	61.6 27	40.6 26
1961	2970.0 19	2140.0 18	1170.0 18	661.0 19	346.0 21	179.0 23	125.0 24	107.0 24	85.2 23	75.9 19
1962	2300.0 27	1370.0 26	700.0 27	600.0 21	443.0 19	256.0 20	181.0 20	145.0 20	104.0 21	61.7 22
1963	2450.0 24	1430.0 23	870.0 22	438.0 25	237.0 28	132.0 30	88.0 32	86.0 29	60.1 30	37.4 28
1964	2730.0 22	1900.0 19	902.0 21	448.0 24	240.0 27	136.0 29	95.9 30	72.4 31	56.3 31	30.3 35
1965	12000.0 4	8390.0 5	4150.0 4	2520.0 6	2290.0 4	1530.0 5	1080.0 5	843.0 5	563.0 5	289.0 5
1966	1720.0 33	955.0 33	489.0 34	254.0 35	141.0 34	84.3 34	70.3 35	61.7 34	52.0 33	34.1 30
1967	2830.0 20	1710.0 21	1020.0 19	803.0 17	557.0 16	443.0 16	322.0 12	243.0 16	168.0 16	87.6 17
1968	11300.0 6	4350.0 11	2030.0 11	1200.0 11	723.0 14	454.0 13	318.0 13	276.0 13	189.0 14	101.0 14
1969	6160.0 13	3530.0 12	1740.0 14	891.0 16	462.0 17	262.0 19	185.0 19	147.0 19	121.0 19	105.0 13
1970	2410.0 26	1130.0 31	552.0 32	268.0 33	138.0 35	80.9 35	72.8 34	59.8 35	48.2 35	32.0 32
1971	2070.0 30	1430.0 24	736.0 24	397.0 27	217.0 29	138.0 28	104.0 29	79.3 30	60.5 28	31.3 34
1972	8690.0 11	6250.0 7	3050.0 9	1480.0 10	830.0 11	441.0 15	299.0 16	303.0 11	249.0 10	167.0 9
1973	2450.0 23	1660.0 22	951.0 20	718.0 18	464.0 18	291.0 18	208.0 18	167.0 18	123.0 18	68.3 20
1974	84.0 37	72.3 37	57.9 37	44.5 37	31.8 37	25.5 37	21.6 37	17.3 37	14.0 37	7.2 37

## MONTHLY DURATION TABLE

BEAVER RIVER AT BEAVER, OKLAHOMA

PERIOD 1937-1974

CLASS LIMIT	TOTAL PERCENT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
0.00	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0.01	76.5	89.2	93.0	95.9	92.7	86.6	85.1	77.2	61.7	45.8	51.0	63.1	77.8
0.02	76.4	89.2	93.0	95.9	92.7	86.6	85.0	77.0	61.1	45.6	50.7	63.1	77.8
0.03	76.2	89.2	93.0	95.9	92.7	86.6	84.7	76.9	60.9	45.1	50.0	62.9	77.8
0.05	75.9	88.9	93.0	95.9	92.7	86.5	84.4	76.6	59.4	44.3	49.5	62.5	77.3
0.08	75.6	88.9	93.0	95.9	92.7	86.5	83.9	76.4	58.7	44.0	49.3	62.4	76.5
0.12	74.4	88.8	93.0	95.6	92.2	86.5	82.8	75.2	56.8	42.9	46.6	60.0	74.5
0.19	73.9	88.6	93.0	95.6	92.2	84.5	82.3	74.5	56.2	42.5	45.3	56.5	74.0
0.30	72.8	88.4	93.0	95.6	91.8	83.0	80.6	73.5	54.7	41.9	43.0	55.5	73.7
0.47	71.6	88.1	93.0	95.4	91.0	81.1	78.7	71.4	52.9	40.6	40.7	54.3	73.1
0.74	70.5	87.8	93.0	95.4	89.8	77.9	77.6	70.0	51.4	38.6	39.1	53.6	72.6
1.20	68.7	87.2	93.0	94.6	87.7	76.2	74.7	67.5	48.0	37.2	35.9	52.7	71.3
1.90	67.2	85.8	93.0	94.6	85.9	73.4	71.4	66.3	46.2	36.3	33.7	50.6	69.7
2.90	65.3	84.6	93.0	93.5	83.5	69.7	71.4	63.9	43.6	33.7	31.8	48.8	68.3
4.60	62.6	82.5	91.9	91.3	79.6	66.4	68.7	60.5	39.7	31.3	29.9	46.8	64.8
7.30	58.5	75.9	89.9	86.7	73.6	61.2	65.4	56.4	36.8	28.7	27.0	42.6	59.2
11.00	53.9	68.5	82.1	79.5	65.2	58.3	62.7	53.4	34.0	25.8	24.3	40.0	54.4
16.00	44.8	52.8	66.6	65.0	52.7	51.7	57.6	48.2	30.3	22.3	20.9	38.0	44.4
26.00	33.7	35.9	45.8	42.4	36.4	45.9	52.8	41.4	25.9	18.8	16.2	17.7	26.5
45.00	23.0	15.7	20.9	21.4	23.9	39.1	45.6	34.4	21.7	15.7	13.8	10.5	13.7
71.00	15.5	5.3	7.2	11.9	14.9	30.1	37.2	26.6	18.1	12.3	10.9	7.0	4.4
110.00	10.8	2.0	1.9	5.7	9.3	21.5	30.2	20.8	14.6	10.4	8.7	4.3	0.2
180.00	7.5	0.7	0.6	2.9	5.3	16.0	21.9	14.4	11.2	8.0	6.5	2.0	0.0
280.00	5.4	0.3	0.2	1.4	3.2	10.6	16.8	10.4	8.7	6.3	5.2	1.2	0.0
440.00	3.8	0.1	0.0	0.7	1.6	6.2	12.3	8.5	5.1	4.9	3.7	0.6	0.0
690.00	2.6	0.0	0.0	0.4	1.1	5.8	8.7	5.4	2.9	3.8	2.4	0.4	0.0
1100.00	1.9	0.0	0.0	0.3	0.6	4.3	6.8	3.4	2.1	2.6	2.0	0.4	0.0
1700.00	1.2	0.0	0.0	0.1	0.5	3.1	4.4	2.2	1.2	1.6	1.3	0.4	0.0
2700.00	0.8	0.0	0.0	0.0	0.5	2.2	2.3	1.0	0.7	1.2	1.0	0.3	0.0
4200.00	0.4	0.0	0.0	0.0	0.2	1.6	1.1	0.4	0.5	0.5	0.6	0.1	0.0
6700.00	0.2	0.0	0.0	0.0	0.1	0.9	0.9	0.2	0.2	0.2	0.4	0.1	0.0
11000.00	0.1	0.0	0.0	0.0	0.0	0.5	0.5	0.0	0.0	0.1	0.3	0.0	0.0
17000.00	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.1	0.0	0.0
26000.00	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0

## STATISTICS OF ANNUAL DISCHARGE FOR WATER YEARS, 1938-74

Units of annual Discharge	Mean	Standard Deviation	Coefficient of Variation	Skew Coefficient	First Order Serial Correlation Coefficient
CFS	112	101	0.90	1.35	-0.01
LOGS of CFS	1.888	0.390		-0.074	-0.060

## ARKANSAS RIVER BASIN

07234100 CLEAR CREEK NEAR ELMWOOD, OKLA.

LOCATION.--Lat 36°38'42", long 100°30'07", in SW 1/4 SW 1/4 sec.8, T.2 N., R.24 E., Beaver County, on downstream side of right pile bent of county road bridge, 1,000 ft (304.8 m) downstream from small irrigation dam, 2.8 mi (4.5 km) northeast of Elmwood, and at mile 16.9 (27.2 km).

DRAINAGE AREA.--170 mi<sup>2</sup> (440 km<sup>2</sup>).

PERIOD OF RECORD.--October 1965 to September 1974.

AVERAGE DISCHARGE.--9 years (1966-74), 9.69 ft<sup>3</sup>/s (0.274 m<sup>3</sup>/s).

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

CLEAR CREEK NEAR ELMWOOD, OKLAHOMA

CLASS 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34

YEAR	NUMBER OF DAYS IN CLASS																																	CFS-DAYS
1966									3	39	61	61	103	94		1																		1316.5
1967									7	74	124	75	32	21	8	3	6	1	1	2	1			1	2					1	1	1		4524.5
1968									6	35	160	111	21	12	9	3	2																	5850.4
1969									7	9	10	16	31	196	52	18	9	2	3	1	3	2	1											9526.8
1970									5	12	27	34	67	204	5	1	1																	1436.4
1971																																		691.3
1972																																		5648.5
1973																																		2068.6
1974																																		813.0

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	4	3267	100.0	9	0.70	115	3188	97.0	18	15.0	18	63	1.9	27	360	3	14	.4	27	360	3	14	.4
1	0.02	3	3283	99.9	10	0.90	289	3073	93.5	19	22.0	4	45	1.4	28	510	2	11	.3	28	510	2	11	.3
2	0.04	0	3280	99.8	11	1.30	457	2764	84.7	20	31.0	6	41	1.2	29	720	2	9	.2	29	720	2	9	.2
3	0.05	2	3280	99.8	12	1.90	834	2327	70.8	21	44.0	4	35	1.1	30	1000	3	7	.2	30	1000	3	7	.2
4	0.08	0	3278	99.7	13	2.70	1132	1493	45.4	22	62.0	1	31	0.9	31	1500	3	4	.1	31	1500	3	4	.1
5	0.10	17	3278	99.7	14	3.80	161	361	11.0	23	88.0	1	30	0.9	32	2100	1	1	.0	32	2100	1	1	.0
6	0.20	15	3261	99.2	15	5.40	74	200	6.1	24	130.0	5	29	0.9	33					33				
7	0.30	29	3248	98.8	16	7.60	48	126	3.8	25	180.0	6	24	0.7	34									
8	0.50	31	3219	97.9	17	11.00	15	78	2.4	26	250.0	4	18	0.5										

## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

CLEAR CREEK NEAR ELMWOOD, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1967	0.62 5	0.65 5	0.71 4	0.77 4	0.86 3	0.90 2	0.97 2	1.05 2	1.86 2	3.24 1
1968	0.71 6	0.79 6	0.96 6	1.02 6	1.09 6	1.14 3	1.24 3	2.12 4	2.31 3	12.70 7
1969	1.10 7	1.13 7	1.21 7	1.36 7	1.75 7	2.56 8	3.26 8	3.38 8	29.50 8	32.60 8
1970	0.54 4	0.61 4	0.69 3	0.74 3	0.99 5	1.48 5	2.40 7	3.08 7	3.14 7	9.82 5
1971	0.17 2	0.25 2	0.41 2	0.56 2	0.78 2	1.37 4	1.72 4	1.85 3	2.31 4	3.65 2
1972	0.06 1	0.15 1	0.22 1	0.44 1	0.65 1	0.83 1	0.84 1	0.98 1	1.12 1	8.22 4
1973	0.36 3	0.56 3	0.78 5	0.84 5	0.95 4	2.14 6	1.97 5	2.70 6	2.85 6	10.90 6
1974	1.70 8	1.73 8	1.81 8	1.96 8	2.11 8	2.28 7	2.36 6	2.41 5	2.53 5	4.05 3

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

CLEAR CREEK NEAR ELMWOOD, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL										
1966	363.0	6	203.0	5	88.6	5	42.3	6	22.2	6	11.7	6	8.1	6	6.3	6	4.7	7	3.6	7
1967	1670.0	3	632.0	4	294.0	3	158.0	3	81.9	3	67.0	2	45.2	3	34.2	3	22.9	3	12.4	4
1968	1580.0	4	642.0	3	281.0	4	227.0	2	123.0	2	63.4	3	56.6	2	43.6	2	29.5	2	16.0	2
1969	5480.0	1	1930.0	1	837.0	1	395.0	1	200.0	1	102.0	1	69.0	1	52.5	1	35.7	1	26.1	1
1970	487.0	5	167.0	6	73.0	6	35.2	7	18.6	7	10.3	7	7.3	7	6.0	7	4.9	6	3.9	6
1971	10.0	8	7.0	8	4.9	8	4.1	8	3.4	8	3.1	8	3.0	8	2.8	9	2.7	9	1.9	9
1972	2040.0	2	727.0	2	317.0	2	151.0	4	77.9	4	42.3	4	29.8	4	22.7	4	15.6	4	15.4	3
1973	201.0	7	124.0	7	61.9	7	47.5	5	35.2	5	20.5	5	14.8	5	11.9	5	8.8	5	5.7	5
1974	8.4	9	4.7	9	3.4	9	3.3	9	3.2	9	3.1	9	3.0	9	3.0	8	2.9	8	2.2	8

## ARKANSAS RIVER BASIN

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## 07234500 NORTH CANADIAN RIVER NEAR FORT SUPPLY, OKLA.

LOCATION.--Lat 36°35'30", long 99°35'30", in NE 1/4 NE 1/4 sec.6, T.24 N., R.22 E., at bridge on State Highway 34, 1.5 mi (2.4 km) northwest of Fort Supply, 8.1 mi (13.0 km) upstream from Wolf Creek, and at mile 495.8 (797.7 km).

DRAINAGE AREA.--9,615 mi<sup>2</sup> (24,903 km<sup>2</sup>), of which 4,547 mi<sup>2</sup> (11,777 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD.--13 years (1938-50), 189 ft<sup>3</sup>/s (5.35 m<sup>3</sup>/s).

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

## NORTH CANADIAN RIVER NEAR FORT SUPPLY, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34		
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS		
1938	13							5	9	8	42	42	42	27	26	16	14	12	18	29	21	10	7	6	6	1	4	3	2		1	1				64424.0	
1939	80						26		18	11	18	13	18	24	30	28	26	13	13	11	6	5	4	1	4	3	3	4	2	2	2					62096.0	
1940	271						5		9	5	4	2	2	6	3	3	4	7	6	7	6	2	6	5	1	3	4	2	2	1						34037.0	
1941	110						8		4	5	8	5	8	8	15	20	31	25	9	19	14	14	23	12	10	5	4	2	1	2	2	1				87719.0	
1942	55						6		2	1	3	1	1	8	5	12	15	35	49	59	50	20	13	7	7	3	4	2	2	2			1			101083.0	
1943	75						16		8	3	6	7	15	18	14	63	41	38	29	17	5	3	3	2	1	1										17863.0	
1944	182						13		4		6	2	4	17	35	18	11	13	15	9	15	5	7	2	5	1	1	1								21836.0	
1945	104	2	3		2	3	2	4	2	14	20	12	15	31	30	23	19	20	23	9	12	3	3	3	4	1	1									18473.9	
1946	63	6	1	1	3	8	6	7	22	31	30	23	45	38	15	20	10	10	10	3	5	4				1										9086.1	
1947	41		1			1		1	1	1	2	2	5	3	6	4	4	23	51	58	50	41	32	10	7	6	5	3	1	3	1	1			1		136189.5
1948	64				1	1	2	2	2	2	47	16	22	21	15	21	21	27	25	26	16	12	12	5	3	1		2		1						36296.4	
1949	1		1		3	4	3	2	3	1	4	6	3	4	13	40	21	64	29	47	34	23	13	9	11	8	6	6	2	3		1				105135.0	
1950											1	3	4	10	18	55	28	78	34	39	3	16	14	14	8	7	5	9	4	5	4	5		1			205303.3

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	1059	4748	100.0	9	2.70	82	3457	72.8	18	72.0	311	1493	31.4	27	1900	34	93	1.9					
1	0.10	8	3689	77.7	10	3.90	191	3375	71.1	19	100.0	333	1182	24.9	28	2800	16	59	1.2					
2	0.20	6	3681	77.5	11	5.60	134	3184	67.1	20	150.0	237	849	17.9	29	4000	19	43	.9					
3	0.30	1	3675	77.4	12	8.00	184	3050	64.2	21	220.0	158	612	12.9	30	5800	12	24	.5					
4	0.40	9	3674	77.4	13	12.00	215	2866	60.4	22	310.0	137	454	9.6	31	8400	9	12	.2					
5	0.60	17	3665	77.2	14	17.00	225	2651	55.8	23	450.0	79	317	6.7	32	12000	1	3	.0					
6	0.90	91	3648	76.8	15	24.00	323	2426	51.1	24	650.0	66	238	5.0	33	17000	2	2	.0					
7	1.30	16	3557	74.9	16	35.00	245	2103	44.3	25	930.0	41	172	3.6	34									
8	1.90	84	3541	74.6	17	50.00	365	1858	39.1	26	1300.0	38	131	2.8										

## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## NORTH CANADIAN RIVER NEAR FORT SUPPLY, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL	
1939	0.00 1	0.00 1	0.00 1	0.00 1	0.14 9	0.17 8	0.68 6	1.84 6	7.69 7	12.00 6	176.00 9
1940	0.00 2	0.00 2	0.00 2	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	162.00 8
1941	0.00 3	0.00 3	0.00 3	0.00 2	0.00 2	0.00 2	0.00 2	0.33 3	7.93 5	98.40 4	
1942	0.00 4	0.00 4	0.43 11	2.21 11	40.90 12	80.70 12	87.40 12	96.30 12	322.00 12	394.00 12	
1943	0.00 5	0.00 5	0.00 4	0.00 3	0.83 9	14.40 9	13.50 9	27.30 9	59.70 9	155.00 6	
1944	0.00 6	0.00 6	0.00 5	0.00 4	0.00 3	0.00 3	0.00 3	0.00 2	0.09 2	20.90 1	
1945	0.00 7	0.00 7	0.00 6	0.00 5	0.00 4	0.01 5	1.64 5	1.23 5	4.05 4	59.20 3	
1946	0.00 8	0.00 8	0.00 7	0.00 6	0.00 5	2.65 7	5.14 7	6.13 6	13.40 7	49.80 2	
1947	0.00 9	0.00 9	0.00 8	0.00 7	0.00 6	3.19 8	11.90 8	9.95 8	34.50 8	257.00 10	
1948	0.00 10	0.00 10	0.00 9	0.00 8	0.00 7	0.00 4	0.00 4	0.39 4	5.52 3	158.00 7	
1949	0.00 11	0.20 11	0.43 10	0.81 10	2.99 10	19.10 10	29.40 10	33.40 10	62.80 10	113.00 5	
1950	14.00 12	14.70 12	15.60 12	18.60 12	39.60 11	54.10 11	67.40 11	74.90 11	81.40 11	293.00 11	

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## NORTH CANADIAN RIVER NEAR FORT SUPPLY, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL										
1938	9960.0	4	6420.0	4	3230.0	5	1590.0	7	812.0	7	537.0	7	393.0	7	401.0	7	334.0	6	177.0	6
1939	7450.0	7	4340.0	7	2960.0	7	2480.0	4	1240.0	5	677.0	6	598.0	5	488.0	5	332.0	7	170.0	7
1940	4010.0	9	2520.0	9	1460.0	9	1010.0	8	788.0	8	427.0	8	357.0	8	277.0	8	166.0	8	93.0	9
1941	9210.0	5	5960.0	6	2990.0	6	1700.0	6	1090.0	6	862.0	4	700.0	4	560.0	4	469.0	4	240.0	5
1942	13500.0	3	8550.0	3	4470.0	3	2370.0	5	1310.0	4	767.0	5	554.0	6	441.0	6	350.0	5	277.0	4
1943	1830.0	11	1140.0	11	662.0	11	371.0	12	215.0	12	126.0	12	110.0	12	95.0	12	75.6	12	48.9	12
1944	2590.0	10	1380.0	10	722.0	10	428.0	10	392.0	10	276.0	10	192.0	10	153.0	10	117.0	10	59.7	10
1945	1670.0	12	829.0	12	431.0	12	397.0	11	287.0	11	196.0	11	145.0	11	118.0	11	91.0	11	50.6	11
1946	1040.0	13	721.0	13	405.0	13	279.0	13	149.0	13	81.2	13	56.2	13	47.2	13	35.3	13	24.9	13
1947	24200.0	1	13900.0	1	7470.0	2	3620.0	2	2100.0	2	1200.0	3	841.0	3	645.0	3	480.0	3	373.0	2
1948	5780.0	8	3520.0	8	1810.0	8	918.0	9	506.0	9	348.0	9	266.0	9	212.0	9	174.0	9	90.2	8
1949	8620.0	6	6080.0	5	3980.0	4	2510.0	3	1940.0	3	1240.0	2	928.0	2	724.0	2	531.0	2	288.0	3
1950	17400.0	2	10900.0	2	8220.0	1	7250.0	1	4350.0	1	2710.0	1	2070.0	1	1560.0	1	1040.0	1	562.0	1

## STATISTICS OF ANNUAL DISCHARGE FOR WATER YEARS, 1938-50

Units of annual Discharge	Mean	Standard Deviation	Coefficient of Variation	Skew Coefficient	First Order Serial Correlation Coefficient
CFS	189	156	0.82	1.18	0.15
LOGS of CFS	2.124	0.404		-0.247	0.163

## ARKANSAS RIVER BASIN

07235000 WOLF CREEK AT LIPSCOMB, TEX.

LOCATION.--Lat 36°14'16", long 100°16'28", Lipscomb County, near center of stream on downstream side of bridge on State Highway 305, 0.3 mi (0.5 km) north of Lipscomb, 0.7 mi (1.1 km) downstream from Little Sandy Creek, 2.0 mi (3 km) upstream from Plum Creek, and at mile 61.2 (98.5 km).

DRAINAGE AREA.--697 mi<sup>2</sup> (1,805 km<sup>2</sup>), of which 222 mi<sup>2</sup> (575 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD.--October 1937 to September 1942, October 1961 to September 1974.

AVERAGE DISCHARGE.--13 years (1962-74), 13.6 ft<sup>3</sup>/s (0.39 m<sup>3</sup>/s).

REMARKS.--Small diversion upstream from station for irrigation and recreation.

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

## WOLF CREEK AT LIPSCOMB, TEXAS

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS	
1962									3	3	23	17	16	22	18	67	57	38	64	15	4	5	5	1	1	4	2								2725.1	
1963									20	20	6	2	10	13	57	57	46	38	30	17	17	9	6	6	2	2	1	1		2	1	1		1		8771.4
1964	74								9	4	8	12	7	8	43	58	47	53	30	9	2	1						1							1380.7	
1965	17								6	6	19	5	4	8	9	14	30	86	72	31	12	14	6	6	4	4	1	4	1	1	2	2	1			11123.8
1966	3	14	7		2	2	1	2	1	9	8	9	23	13	20	59	74	90	13	6	3	1	1	2	1		1								2334.8	
1967								1	9	8	16	5	22	42	45	79	51	27	21	16	5	7	3	1	2	1	1	1	1		1				5498.8	
1968								2	1	7	1	6	21	27	18	61	144	37	26	8	2	2			1	1						1			3492.4	
1969									18	10	14	2	10	6	6	3	4	20	73	131	35	14	5	4	2		1		1				2			8734.3
1970						6		13	5	3	7	18	28	21	23	66	111	41	10	3	2	2	2	1				2						1		4212.2
1971									5	5	20	10	11	19	23	67	121	65	9	2	3	1				2	1	1								2466.0
1972									5	12	7	22	5	8	6	20	19	83	96	43	19	4	4	1	1	5				1				1		6595.0
1973									4	17	11	25	6	20	33	38	20	77	25	23	29	9	15	7	2	1	2									3870.8
1974						2	2	12	5	10	4	10	16	57	54	50	75	29	12	11	3	3	3	1	2		3									3440.5

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	94	4748	100.0	9	0.30	130	4425	93.2	18	9.7	360	786	16.6	27	300	4	26	.5					
1	0.01	14	4654	98.0	10	0.50	141	4295	90.5	19	14.0	164	426	9.0	28	440	7	22	.4					
2	0.02	7	4640	97.7	11	0.70	116	4154	87.5	20	21.0	73	262	5.5	29	650	4	15	.3					
3	0.03	0	4633	97.6	12	1.00	206	4038	85.0	21	31.0	58	189	4.0	30	960	4	11	.2					
4	0.04	2	4633	97.6	13	1.40	351	3832	80.7	22	45.0	37	131	2.8	31	1400	5	7	.1					
5	0.06	10	4631	97.5	14	2.10	440	3481	73.3	23	66.0	19	94	2.0	32	2100	2	2	.0					
6	0.09	3	4621	97.3	15	3.10	605	3041	64.0	24	96.0	22	75	1.6	33	3000								
7	0.10	95	4618	97.3	16	4.50	971	2436	51.3	25	140.0	14	53	1.1	34									
8	0.20	98	4523	95.3	17	6.60	679	1465	30.9	26	210.0	13	39	0.8										

## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## WOLF CREEK AT LIPSCOMB, TEXAS

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1963	0.10 4	0.17 7	0.23 7	0.29 7	0.84 9	2.35 10	2.56 8	2.42 5	4.36 6	7.13 3
1964	0.10 5	0.10 4	0.11 4	0.13 5	0.16 3	1.77 8	2.22 6	3.12 7	4.43 7	24.10 10
1965	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.14 1	0.14 1	0.22 1	1.82 1	4.16 1
1966	0.20 11	0.20 9	0.26 8	0.34 9	1.05 10	5.54 11	5.79 11	6.43 11	6.96 11	31.30 12
1967	0.00 2	0.00 2	0.01 2	0.01 2	0.02 2	0.52 2	1.37 4	1.75 3	2.25 3	4.25 2
1968	0.14 9	0.27 11	0.77 12	1.26 12	1.71 12	2.20 9	2.91 9	3.63 8	4.31 5	16.00 8
1969	0.11 6	0.17 8	0.34 10	0.74 11	1.55 11	6.67 12	8.03 12	7.90 12	14.20 12	26.30 11
1970	0.11 7	0.11 5	0.12 5	0.13 3	0.20 4	0.57 3	2.50 7	4.06 9	5.10 8	7.46 4
1971	0.06 3	0.07 3	0.10 3	0.13 4	0.25 5	1.60 7	3.00 10	5.84 10	6.19 9	12.00 6
1972	0.20 10	0.23 10	0.35 11	0.44 10	0.58 8	0.73 4	1.19 3	1.75 4	6.85 10	16.60 9
1973	0.13 8	0.13 6	0.15 6	0.19 6	0.37 6	1.13 6	2.04 5	2.69 6	3.52 4	9.07 5
1974	0.29 12	0.29 12	0.29 9	0.30 8	0.56 7	0.93 5	1.14 2	1.32 2	1.90 2	12.50 7

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## WOLF CREEK AT LIPSCOMB, TEXAS

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1962	206.0 13	115.0 12	56.6 12	36.1 12	24.4 11	18.9 10	13.2 11	13.3 10	9.9 11	7.5 10
1963	2860.0 1	1420.0 1	723.0 1	360.0 1	189.0 2	98.2 2	65.9 3	65.3 2	43.8 2	24.0 2
1964	249.0 12	102.0 13	47.1 13	23.9 13	14.2 13	7.7 13	6.7 13	5.9 13	6.3 13	3.8 13
1965	1680.0 6	826.0 4	467.0 2	235.0 3	217.0 1	119.0 1	101.0 1	80.9 1	55.5 1	30.5 1
1966	257.0 11	120.0 11	70.4 11	38.0 11	20.5 12	12.6 12	8.5 12	7.3 12	7.3 12	6.4 12
1967	1720.0 4	685.0 5	322.0 5	165.0 5	95.3 5	73.0 4	51.4 4	39.6 4	27.6 4	15.1 5
1968	1220.0 7	455.0 7	206.0 7	100.0 8	52.1 9	30.2 9	23.2 7	19.8 8	14.8 9	9.5 8
1969	2060.0 3	901.0 3	416.0 4	330.0 2	177.0 3	95.2 3	66.9 2	53.0 3	38.5 3	23.9 3
1970	1680.0 5	583.0 6	257.0 6	122.0 6	61.2 7	33.4 7	22.7 8	24.7 7	17.9 7	11.5 6
1971	280.0 10	175.0 10	111.0 10	58.2 10	31.1 10	17.6 11	13.5 10	12.1 11	10.1 10	6.8 11
1972	2310.0 2	997.0 2	450.0 3	219.0 4	116.0 4	65.2 5	46.6 5	36.6 5	26.4 5	18.0 4
1973	460.0 9	221.0 9	123.0 9	78.2 9	67.3 6	42.8 6	33.0 6	26.5 6	19.3 6	10.6 7
1974	631.0 8	395.0 8	197.0 8	101.0 7	55.5 8	31.1 8	22.4 9	18.1 9	15.4 8	9.4 9

## STATISTICS OF ANNUAL DISCHARGE FOR WATER YEARS, 1962-74

Units of annual Discharge	Mean	Standard Deviation	Coefficient of Variation	Skew Coefficient	First Order Serial Correlation Coefficient
CFS	13.6	8.17	0.60	0.92	-0.72
LOGS of CFS	1.062	0.263		-0.006	-0.792



## ARKANSAS RIVER BASIN

211

07235500 WOLF CREEK NEAR SHATTUCK, OKLA.

LOCATION.--Lat 36°17'10", long 99°54'45", in NE 1/4 NE 1/4 sec.19, T.21 N., R.25 W., at Atchison, Topeka and Santa Fe Railway bridge 2.0 mi (3.2 km) northwest of Shattuck, 2.5 mi (4.0 km) upstream from Rock Creek, 3.0 mi (4.8 km) downstream from Ivanhoe Creek, and at mile 36.0 (57.9 km).

DRAINAGE AREA.--1,183 mi<sup>2</sup> (3,064 km<sup>2</sup>), of which 222 mi<sup>2</sup> (575 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD.--October 1937 to September 1946.

AVERAGE DISCHARGE.--9 years (1938-46), 50.8 ft<sup>3</sup>/s (1.44 m<sup>3</sup>/s).

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

WOLF CREEK NEAR SHATTUCK, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34		
YEAR	NUMBER OF DAYS IN CLASS																																		CFS-DAYS		
1938	38							6		4	6	4	34	18	28	76	62	17	13	17	16		3	4	9	3	1	1	2	2	1						19046.0
1939	68						39			10	14	25	36	31	45	33	12	7	18	6	3	1	3	2	3	1	1	3	1	1	1	1	1				18591.0
1940	133						44			40	19	23	31	23	18		9	6	4	4	5	1		1	3	1	1	1						2			11751.0
1941	20							10		20	9	42	30	43	33	49	25	19	16	8	13	7	4	6	3	3			2	1	1		1				23814.0
1942							3			1		11	14	15	17	25	43	84	50	40	18	17	6	8	5			2	2	1				1	1		43118.0
1943	44							11		20	6	7	16	17	24	37	59	67	28	5	5	7	5	1	1	1			1		1						14959.0
1944	23						29			28	11	27	19	24	24	64	44	31	15	7	7	2	4	1	2			3					1			13304.0	
1945	29	1	4	1	4	8	2	4	3	3	12	5	3	20	37	42	72	67	27	9	4	1	1					2	1	1				2			15489.9
1946	62	1			3		4	2		6	7	21	28	26	70	80	28	10	6	3	2				3	1			1	1							7062.3

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	417	3287	100.0	9	2.00	132	2691	81.9	18	40.0	216	578	17.6	27	810	9	29	.8					
1	0.10	2	2870	87.3	10	2.80	84	2559	77.9	19	56.0	123	362	11.0	28	1100	6	20	.6					
2	0.20	4	2868	87.3	11	3.90	165	2475	75.3	20	79.0	69	239	7.3	29	1600	3	14	.4					
3	0.30	1	2864	87.1	12	5.50	198	2310	70.3	21	110.0	36	170	5.2	30	2200	4	11	.3					
4	0.40	7	2863	87.1	13	7.60	216	2112	64.3	22	150.0	29	134	4.1	31	3100	5	7	.2					
5	0.50	8	2856	86.9	14	11.00	289	1896	57.7	23	210.0	35	105	3.2	32	4300			.0					
6	0.70	6	2848	86.6	15	15.00	402	1607	48.9	24	300.0	21	70	2.1	33	6000	2		.0					
7	1.00	148	2842	86.5	16	21.00	329	1205	36.7	25	420.0	7	49	1.5	34									
8	1.40	3	2694	82.0	17	29.00	298	876	26.7	26	580.0	13	42	1.3										

## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

WOLF CREEK NEAR SHATTUCK, OKLAHOMA

YEAR	1		3		7		14		30		60		90		120		183		ANNUAL	
1939	0.00	1	0.00	1	0.00	1	0.00	1	0.20	3	0.68	2	1.87	2	3.04	2	6.59	2	49.90	6
1940	0.00	2	0.00	2	0.00	2	0.00	2	0.00	1	0.00	1	0.00	1	0.28	1	0.73	1	45.90	4
1941	0.00	3	0.00	3	0.00	3	0.00	3	0.37	4	0.85	3	2.19	3	3.09	3	7.53	3	35.60	3
1942	3.00	8	3.33	8	3.71	8	4.00	7	8.37	7	30.00	8	35.60	8	38.90	8	121.00	8	142.00	8
1943	1.00	7	1.00	7	2.71	7	4.57	8	8.63	8	27.90	7	31.70	7	35.10	7	51.80	7	63.40	7
1944	0.00	4	0.00	4	0.00	4	0.00	4	0.10	2	1.70	4	3.27	4	6.06	4	8.36	4	23.70	1
1945	0.00	5	0.00	5	0.00	5	1.29	6	2.53	6	13.90	6	24.10	6	25.10	6	39.00	6	47.70	5
1946	0.00	6	0.00	6	0.00	6	0.01	5	1.28	5	2.71	5	3.53	5	11.40	5	21.70	5	31.50	2

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

WOLF CREEK NEAR SHATTUCK, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL										
1938	1650.0	7	706.0	7	467.0	7	337.0	5	281.0	4	189.0	3	142.0	4	116.0	4	88.4	4	52.2	3
1939	3380.0	4	1740.0	3	823.0	3	492.0	3	294.0	3	170.0	4	161.0	3	134.0	3	97.6	3	50.9	4
1940	4220.0	3	1620.0	4	722.0	4	345.0	4	182.0	5	147.0	5	119.0	5	92.0	5	62.0	5	32.1	8
1941	6030.0	2	2490.0	2	1210.0	2	623.0	2	450.0	2	294.0	2	216.0	2	169.0	2	121.0	2	65.2	2
1942	14300.0	1	6200.0	1	2870.0	1	1430.0	1	757.0	1	417.0	1	294.0	1	231.0	1	163.0	1	118.0	1
1943	1220.0	8	584.0	8	429.0	8	240.0	8	146.0	7	92.1	6	77.2	6	67.1	6	55.7	6	41.0	6
1944	3110.0	5	1170.0	6	523.0	6	249.0	7	154.0	6	91.2	7	66.9	7	65.6	7	54.3	7	36.3	7
1945	2900.0	6	1400.0	5	603.0	5	287.0	6	144.0	8	74.3	8	52.7	8	46.5	8	43.2	8	42.4	5
1946	933.0	9	513.0	9	248.0	9	121.0	9	63.4	9	32.2	9	31.7	9	24.5	9	20.9	9	19.3	9



## ARKANSAS RIVER BASIN

07236000 WOLF CREEK NEAR FARGO, OKLA.

LOCATION.--Lat 36°23'57", long 99°37'22", in SE 1/4 NE 1/4 sec.11, T.22 N., R.23 W., Ellis County, near right bank on downstream side of pier of county road bridge, 800 ft (243.8 m) downstream from Boggy Creek, 1.2 mi (1.9 km) downstream from Sixteen Mile Creek, 1.5 mi (2.4 km) north of Fargo, and at mile 18.7 (30.1 km).

DRAINAGE AREA.--1,624 mi<sup>2</sup> (4,206 km<sup>2</sup>), of which 258 mi<sup>2</sup> (616 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD.--October 1942 to September 1974.

AVERAGE DISCHARGE.--32 years (1943-74), 67.9 ft<sup>3</sup>/s (1.92 m<sup>3</sup>/s).

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

WOLF CREEK NEAR FARGO, (OKLAHOMA)

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS	
1943	63						6			3	4	6	5	1	8	12	7	107	75	31	2	32	2					1								20545.0
1944	43						7		7	19	17	23	9	25	22	43	62	44	19	5	6	4	3	3						1	1					27625.0
1945	29		5	1	6	3	9	6	2	2	5	9	5	8	12	23	95	104	21	8	3	3	1	1			1		2						28438.5	
1946	45		3	3	2	2	2	5	3	4	9	8	6	25	40	99	77	15	5	5	3	3				1									11571.8	
1947	6	3	2	2	8	6	12	5	5	4	4	3	2	6	12	33	120	49	32	14	8	8	11	3	3	2				1	1				38218.3	
1948			11	11	3	6	1	3	16	12	15	12	15	36	88	47	37	19	12	9	4	4	2			1	2								14868.5	
1949								6	10	4			13	12	12	32	72	39	60	36	18	10	12	9	6	5	2	2	1	1	3				58259.3	
1950													7	1		6	113	77	46	15	27	19	14	10	3	9	8	1	2	3	3	1			85554.1	
1951											1	5	4	14	12	14	12	35	125	88	9	7	14	10	6	2	2			2	1			1	71415.2	
1952	56	3	1	2	7	9	6	3	3	2	4	7	2	20	15	13	128	52	25	5	2														13695.4	
1953	71	3			1	3	5	8	10	17	9	11	9	29	52	42	22	4	4	5	3	1	2	3	1										10861.0	
1954	94	1		1	1	5	2	3	3	1	3	3	3	21	97	88	17	7	6	3	1														16525.9	
1955	66	5	2	3	5	5	6	4	12	4	5	8	44	43	61	9	20	14	10	11	6	6	6	1	3			2	3	1					29952.4	
1956	58	2	2		4	5	5	3	19	16	17	13	26	43	95	36	11	3	4	1		2					1								6878.8	
1957	54			1	2	1	1	2	18	20	6	20	9	25	30	28	13	18	33	12	27	8	11	7	5	8		2	1	2		1		2	99152.7	
1958													14	9	17	32	29	190	42	12	5	3	6	2	2	1									21424.0	
1959				3	1	13	2	9	5	8	16		22	25	38	55	71	71	13	9	1	1			1										10453.9	
1960													8	22	44	62	73	78	30	14	8	9	6	2	2	2	1								20402.5	
1961															23	39	64	133	60	23	8	1	4	4	3	2	1								23245.0	
1962								3	8	7	9	5	25	39	27	42	154	26	13	4			1	1											14325.0	
1963		1	1	4	4	1	3	3	7	5	6	6	4	21	91	68	112	10	5	4	2	1	1	2			1	2							17694.3	
1964	34	2	4	2	4	7	7	4	4	11	11	14	26	34	46	98	51	3	1			1	1	1											8148.2	
1965					1	15	6	5	4	7	1	9	11	14	24	73	135	28	11	6	5	2	2	1	3			2							21193.3	
1966													7	10	50	57	131	80	17	4	3	2	3												15878.6	
1967											1		1	13	35	74	166	41	17	7	4	2	1	1	2										13452.1	
1968											4	2	6	5	8	19	32	51	119	92	15	5	2		3	2	1								12807.4	
1969											6	6	1	2	5	16	15	10	14	69	152	44	9	8		2			3		1				17763.2	
1970							1	5	8	9	10	5	12	18	14	22	36	154	55	11	2	1	1					1								10117.7
1971																																				9074.3
1972																																				17293.2
1973																																				14672.0
1974																																				11589.6

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	619	11648	100.0	9	2.80	185	10425	89.2	18	76.0	508	1282	11.0	27	2100	11	38	.3
1	0.10	20	11069	94.7	10	4.00	193	10240	87.6	19	110.0	219	774	6.6	28	3000	12	27	.2
2	0.20	31	11049	94.5	11	5.80	331	10047	86.0	20	160.0	175	555	4.7	29	4400	9	15	.1
3	0.30	35	11018	94.3	12	8.30	440	9716	83.1	21	230.0	112	380	3.3	30	6400	2	6	.0
4	0.40	55	10985	94.0	13	12.00	813	9276	79.4	22	330.0	84	268	2.3	31	9200	1	4	.0
5	0.60	98	10930	93.5	14	17.00	1347	8463	72.4	23	480.0	57	184	1.6	32	13000	1	3	.0
6	0.90	100	10832	92.7	15	25.00	2199	7116	60.9	24	700.0	41	127	1.1	33	19000	2	2	.0
7	1.30	126	10732	91.8	16	38.00	2562	4917	42.1	25	1000.0	35	86	0.7	34				
8	1.90	181	10606	90.7	17	53.00	1073	2355	20.1	26	1500.0	13	51	0.4					

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## WOLF CREEK NEAR FARGO, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1944	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.05 4	3.00 5	3.02 4	7.53 4	36.10 9
1945	0.00 2	0.00 2	0.00 2	0.06 14	4.00 17	24.40 26	50.60 30	52.70 30	60.10 31	105.00 27
1946	0.00 3	0.00 3	0.00 3	0.00 2	0.27 8	1.63 7	5.91 9	14.00 13	39.50 26	50.50 21
1947	0.00 4	0.00 4	0.00 4	0.00 3	0.00 2	10.20 17	10.20 12	12.30 11	25.20 18	43.70 15
1948	0.00 5	0.00 5	0.01 11	0.23 10	0.29 9	0.44 5	0.82 4	3.14 5	9.70 5	88.60 26
1949	1.30 18	1.57 20	1.89 19	2.07 18	3.60 15	6.01 11	17.90 18	20.90 20	31.00 19	49.00 18
1950	6.40 26	6.67 25	7.57 26	8.36 25	13.20 26	28.10 27	29.40 26	32.50 26	36.60 24	157.00 28
1951	21.00 31	23.00 31	25.40 31	25.60 31	27.90 31	65.50 31	68.40 31	69.90 31	76.10 30	251.00 30
1952	3.70 23	4.80 24	6.86 24	7.19 24	11.30 24	15.10 22	18.00 19	25.40 21	32.70 21	182.00 29
1953	0.00 6	0.00 6	0.00 5	0.00 4	0.00 3	0.00 1	0.11 3	0.88 3	4.06 3	23.00 3
1954	0.00 7	0.00 7	0.00 6	0.00 5	0.00 4	20.90 25	31.60 27	34.00 27	37.20 25	49.10 19
1955	0.00 8	0.00 8	0.00 7	0.00 6	0.00 5	0.00 2	0.00 1	0.13 1	1.08 1	20.60 2
1956	0.00 9	0.00 9	0.00 8	0.00 7	0.00 6	7.31 12	10.70 13	12.70 12	14.90 8	86.00 25
1957	0.00 10	0.00 10	0.00 9	0.00 8	0.00 7	0.00 3	0.01 2	0.53 2	3.10 2	18.50 1
1958	14.00 30	14.00 30	14.00 30	14.50 30	17.50 29	35.80 29	37.70 29	38.70 28	42.50 28	285.00 31
1959	4.00 25	4.50 23	5.07 23	5.36 23	6.07 23	8.16 16	12.90 15	15.40 15	20.70 14	48.60 17
1960	0.30 13	0.30 13	0.50 13	0.59 12	1.18 12	4.81 10	6.93 10	9.12 8	14.50 6	36.00 8
1961	8.60 27	9.03 27	9.64 27	11.90 27	19.00 30	35.80 30	36.80 28	38.80 29	43.70 29	58.70 22
1962	9.50 28	9.80 28	10.60 28	11.90 28	13.30 27	15.70 23	22.30 22	26.70 22	31.80 20	59.50 24
1963	1.40 19	1.43 19	1.99 21	2.69 21	3.69 16	13.30 19	26.30 23	30.50 23	33.00 22	38.50 12
1964	0.10 12	0.23 12	0.29 12	0.48 11	1.56 13	8.88 15	12.30 14	15.40 16	20.00 13	43.80 16
1965	0.00 11	0.00 11	0.00 10	0.00 9	0.40 10	0.55 6	3.72 6	4.73 6	14.50 7	26.30 4
1966	1.70 22	1.77 22	1.93 20	2.51 20	5.75 22	28.70 28	28.80 25	31.60 25	33.20 23	59.40 23
1967	3.80 24	6.80 26	7.11 25	8.40 26	11.80 25	13.60 20	16.50 17	18.90 17	21.60 15	38.40 10
1968	10.00 29	10.00 29	11.10 29	13.50 29	14.90 28	16.30 24	18.20 20	20.50 18	24.70 17	38.40 11
1969	1.50 21	1.63 21	2.06 22	2.97 22	5.36 21	15.00 21	28.10 24	30.80 24	39.70 27	49.10 20
1970	1.20 17	1.20 16	1.26 16	1.54 16	4.43 18	8.71 14	21.10 21	20.50 19	23.00 16	34.70 7
1971	0.40 14	0.67 15	0.80 15	1.25 15	3.01 14	3.55 8	5.65 8	12.10 9	19.90 12	28.40 5
1972	0.40 15	0.47 14	0.63 14	0.66 13	1.06 11	4.06 9	4.95 7	7.29 7	16.90 9	42.40 14
1973	1.20 16	1.27 17	1.54 17	2.46 19	5.02 20	11.90 18	15.10 16	15.00 14	17.70 11	32.70 6
1974	1.40 20	1.40 18	1.56 18	1.77 17	4.69 19	7.52 13	9.06 11	12.30 10	17.30 10	41.40 13

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## WOLF CREEK NEAR FARGO, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1943	1030.0 21	494.0 20	270.0 19	190.0 18	190.0 14	125.0 13	106.0 12	92.6 12	74.9 12	56.3 12
1944	4990.0 7	2120.0 8	957.0 8	461.0 8	299.0 7	191.0 7	147.0 7	165.0 7	129.0 7	75.5 8
1945	5170.0 6	2160.0 7	1020.0 7	506.0 7	273.0 8	157.0 10	126.0 10	109.0 10	92.9 8	77.9 7
1946	794.0 22	439.0 22	222.0 25	134.0 24	79.0 27	43.4 29	42.0 28	39.3 28	37.8 28	31.7 26
1947	5910.0 4	3470.0 5	1850.0 5	1010.0 5	558.0 5	361.0 6	280.0 6	230.0 5	166.0 5	105.0 5
1948	1360.0 15	799.0 15	382.0 16	189.0 19	100.0 22	86.4 20	69.3 21	68.6 19	65.1 17	40.6 20
1949	5830.0 5	3870.0 4	2590.0 4	1550.0 4	1160.0 4	730.0 4	514.0 4	403.0 4	290.0 4	160.0 4
1950	6630.0 3	4360.0 3	3000.0 3	2490.0 2	1630.0 2	957.0 2	737.0 2	587.0 2	426.0 2	234.0 2
1951	16400.0 2	10300.0 2	4800.0 2	2400.0 3	1360.0 3	883.0 3	609.0 3	474.0 3	341.0 3	196.0 3
1952	400.0 30	203.0 31	128.0 30	98.3 27	80.6 26	72.9 22	70.4 20	66.8 20	60.3 19	37.4 22
1953	775.0 23	507.0 19	260.0 20	159.0 22	102.0 20	67.7 23	58.8 23	54.6 23	45.7 23	29.8 27
1954	3480.0 10	1230.0 11	560.0 11	343.0 10	192.0 12	114.0 16	88.1 17	76.4 17	60.9 18	45.3 17
1955	4030.0 8	2460.0 6	1200.0 6	676.0 6	488.0 6	405.0 5	295.0 5	227.0 6	155.0 6	82.1 6
1956	1070.0 20	411.0 25	179.0 27	83.8 29	41.9 32	33.7 32	28.9 32	26.6 32	25.2 32	18.8 32
1957	21800.0 1	14100.0 1	6740.0 1	3680.0 1	1930.0 1	1310.0 1	975.0 1	777.0 1	534.0 1	272.0 1
1958	1840.0 14	953.0 14	495.0 15	302.0 13	192.0 13	143.0 11	115.0 11	95.9 11	80.0 11	58.7 10
1959	760.0 24	280.0 28	143.0 29	86.8 28	55.2 28	52.8 26	53.0 25	50.7 24	44.9 25	28.6 28
1960	1200.0 16	641.0 17	366.0 17	194.0 17	148.0 17	98.0 18	101.0 13	87.7 13	74.6 13	55.7 13
1961	1160.0 18	789.0 16	529.0 14	293.0 14	197.0 11	160.0 9	130.0 8	110.0 8	89.5 9	63.7 9
1962	1170.0 17	485.0 21	255.0 21	145.0 23	81.4 25	51.3 27	49.6 26	47.3 27	45.2 24	39.2 21
1963	1920.0 12	1610.0 9	851.0 9	445.0 9	247.0 10	135.0 12	100.0 14	85.2 14	69.1 14	48.5 15
1964	391.0 31	219.0 30	117.0 32	69.3 32	52.1 29	39.8 31	36.9 31	35.0 31	35.4 29	22.3 31
1965	2040.0 11	961.0 13	538.0 13	326.0 11	272.0 9	165.0 8	127.0 9	109.0 9	86.0 10	58.1 11
1966	3550.0 9	1360.0 10	631.0 10	320.0 12	171.0 16	102.0 17	79.8 18	70.8 18	58.3 21	43.5 18
1967	676.0 25	416.0 24	224.0 24	123.0 25	84.3 24	81.0 21	65.4 22	58.4 22	51.1 22	36.9 23
1968	609.0 27	427.0 23	255.0 22	178.0 20	100.0 21	54.2 25	48.2 27	50.0 26	44.2 26	35.0 24
1969	1110.0 19	613.0 18	338.0 18	231.0 16	144.0 19	90.2 19	71.6 19	63.4 21	58.9 20	48.7 14
1970	607.0 28	265.0 29	145.0 28	73.6 31	50.8 30	44.2 28	40.1 29	38.4 29	35.3 30	27.7 29
1971	199.0 32	158.0 32	120.0 31	74.5 30	48.5 31	41.6 30	37.7 30	38.2 30	35.2 31	24.9 30
1972	1880.0 13	1050.0 12	540.0 12	293.0 15	177.0 15	121.0 14	97.5 16	84.3 16	68.0 15	47.2 16
1973	447.0 29	322.0 27	234.0 23	170.0 21	145.0 18	114.0 15	98.0 15	85.0 15	67.6 16	40.7 19
1974	671.0 26	374.0 26	199.0 26	123.0 26	86.5 23	63.3 24	54.0 24	50.1 25	42.6 27	31.8 25

## MONTHLY DURATION TABLE

WOLF CREEK NEAR FARGO, OKLAHOMA

PERIOD 1942-1974

CLASS LIMIT	TOTAL PERCENT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
0.00	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0.10	94.7	100.0	100.0	100.0	100.0	100.0	98.6	93.8	82.3	78.6	87.1	96.4	100.0
0.14	94.5	100.0	100.0	100.0	100.0	100.0	98.4	93.2	81.7	78.2	86.9	96.3	100.0
0.21	94.3	100.0	100.0	100.0	100.0	100.0	98.1	92.8	81.0	77.6	85.7	96.3	100.0
0.30	94.3	100.0	100.0	100.0	100.0	100.0	98.1	92.8	81.0	77.6	85.7	96.3	100.0
0.44	93.8	100.0	100.0	100.0	100.0	100.0	97.8	91.9	79.6	76.6	84.4	95.6	100.0
0.63	93.2	100.0	100.0	100.0	100.0	100.0	96.7	91.1	78.7	73.9	83.2	94.9	100.0
0.91	92.5	100.0	100.0	100.0	100.0	100.0	96.4	89.9	77.3	70.9	81.4	94.5	100.0
1.30	91.8	100.0	100.0	100.0	100.0	100.0	95.6	88.2	74.3	69.4	81.3	93.5	100.0
1.90	90.7	100.0	100.0	100.0	100.0	100.0	95.1	86.2	68.1	67.1	80.2	92.7	100.0
2.80	89.2	100.0	100.0	100.0	100.0	99.8	93.6	83.0	63.5	64.7	77.8	91.3	97.4
4.00	87.6	99.9	99.2	100.0	100.0	99.5	91.5	80.7	57.7	62.8	75.6	89.4	95.9
5.80	86.0	99.5	99.1	100.0	100.0	99.1	89.1	76.1	52.1	60.1	73.8	88.1	95.5
8.30	83.1	98.2	98.3	100.0	100.0	98.5	86.8	68.1	46.2	55.2	65.7	86.7	95.1
12.00	79.4	95.5	98.2	100.0	98.5	96.6	83.9	59.7	41.4	46.9	56.6	83.4	93.2
17.00	72.4	91.9	96.3	99.1	97.5	89.3	73.3	48.1	35.7	33.0	43.5	75.3	87.5
25.00	60.9	80.8	90.0	93.1	89.8	72.6	62.0	36.8	25.7	21.3	31.9	54.7	74.0
36.00	42.1	53.0	68.9	71.3	61.7	54.3	48.2	28.4	17.7	13.9	22.6	27.8	38.8
53.00	20.1	11.1	19.8	28.5	28.8	35.2	35.8	20.5	13.0	9.9	15.6	10.5	13.2
76.00	11.0	2.4	7.5	9.1	17.6	22.3	25.9	13.5	10.3	7.8	10.2	2.4	2.6
110.00	6.6	0.2	2.5	2.5	6.7	16.1	19.2	8.6	8.5	6.3	7.4	1.4	0.1
160.00	4.7	0.2	1.2	1.0	3.9	12.2	14.7	6.7	6.0	4.5	5.5	0.9	0.0
230.00	3.3	0.1	0.4	0.6	2.5	9.3	11.3	4.9	4.4	3.2	1.6	0.5	0.0
330.00	2.3	0.0	0.0	0.4	1.9	7.0	8.3	3.3	2.7	2.2	1.2	0.4	0.0
480.00	1.6	0.0	0.0	0.3	1.1	4.4	5.5	2.7	1.8	1.6	1.0	0.3	0.0
700.00	1.1	0.0	0.0	0.1	0.8	3.0	4.0	2.3	1.2	0.8	0.5	0.2	0.0
1000.00	0.7	0.0	0.0	0.1	0.7	2.3	2.4	1.7	0.5	0.5	0.4	0.1	0.0
1500.00	0.4	0.0	0.0	0.0	0.2	1.6	1.8	0.8	0.3	0.2	0.2	0.1	0.0
2100.00	0.3	0.0	0.0	0.0	0.1	1.4	0.9	0.8	0.2	0.2	0.2	0.0	0.0
3000.00	0.2	0.0	0.0	0.0	0.1	1.1	0.5	0.6	0.2	0.0	0.2	0.0	0.0
4400.00	0.1	0.0	0.0	0.0	0.0	0.7	0.2	0.3	0.2	0.0	0.1	0.0	0.0
6400.00	0.1	0.0	0.0	0.0	0.0	0.3	0.2	0.1	0.0	0.0	0.0	0.0	0.0
9200.00	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0
13000.00	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0
19000.00	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0

## STATISTICS OF ANNUAL DISCHARGE FOR WATER YEARS, 1943-74

Units of annual Discharge	Mean	Standard Deviation	Coefficient of Variation	Skew Coefficient	First Order Serial Correlation Coefficient
CFS	67.9	61.6	0.91	2.25	0.231
LOGS of CFS	1.721	0.288		1.025	0.106

## 215

LOCATION.--Lat 36°34'00", long 99°33'05", in SE 1/4 SE 1/4 sec.9, T.24 N., R.22 W., Woodward County, near left bank on downstream side of pier of bridge on U.S. Highway 270, 1.0 mi (1.6 km) southeast of Fort Supply, 1.6 mi (2.6 km) downstream from Fort Supply Dam, and at mile 3.9 (6.3 km).

REMARKS.--Flow completely regulated since May 1942 by Fort Supply Lake.

WOLF CREEK NEAR FORT SUPPLY, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34		
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS		
1943	82							63			44	20	9	16		2	1	3	2	11	33	30	8	9	15	16	1									15360.0	
1944	73							118			60	18	5	6	1		1	2	4	3	6	21	15	14												26322.0	
1945	9	4	7	8	3	8	24	13	9	40	20	19	7	6	6	8	11	2	3	46	21	12	4	32	1		6	1	5	3	1	2	1			23936.7	
1946	52	3	9	3	4	6	19	18	15	14	5	39	13	3	7	7	30	26	53	20	2		2	5		2	2	2	4							13876.9	
1947	65	1	2	2	4	11	10	23	49	22	20	10	5	1	2	1	3	17	10	21	21	5	12	5	15	16	1	1	1	4						47368.8	
1948	66	14	28	25	6	37	23	28	44	14	10	6	9	4	3	1	3	8	18	7	7					1	1	2	1							8031.8	
1949						26	1	23	40	25	34	15	15	14	9	12	17	11	3	12	8	10	12	14	4	7	6	6	13							65126.9	
1950					1	2	3	21	53	48	41	15	14	4	1			1	2	8	17	8	33	12	2	10	18	8	41	2						79666.2	
1951								20	19	13	16	10	4	10	9	10	9	22	24	38	55	25	25		1	1	3	6	45								72066.7
1952				3	7	3	3	8	12	22	20	48	26	5	8	11	2	5	13	44	36	50	32	6	1	1											13578.5
1953	10	5	1	4	2	6	16	25	83	73	67	27	5	30													2									2850.1	
1954	6	5	3	4	5	9	22	20	13	5	10	17	11	6	25	11	14	85	60	5	2	10	4	3	3		2	2	1	2						16071.3	
1955	44	1	19	1	97	60	32	33	4	5	14	6	12	6	7	3	2					1	4	1	3	3	3	5	5	3	2	1					18347.2
1956					91	124	30			30		62				29																					1322.4
1957					31151		12	2	9	4	6	5	4	3	3	5			7	4	10	5	23	4	6	11	26	15	6	2	4	7					105098.3
1958	8	1	1		3	11	6	14	4	21	13	7	11	3	2	3	15	14	70	67	40	18	9	9	3	5	2	2	2	1							25061.5
1959					2	14	34	38	52	17	11	2	1	6	9	4	12	28	48	35	16	13	5	11	7												9403.8
1960					3	4	14	24	1	36	22	11	10	8	8	7	14	11	25	26	29	41	19	9	9	4	9		2								19011.8
1961						4	35	27	11	5	5	7	10	9	6	13	44	69	29	38	21	14	8	2	2	1	5										21123.4
1962			3	19	14	23	44	13	10	3	4	5	2	1	12	23	25	30	67	30	14	12	11														10510.3
1963		6	1	9	8	33	26	21	27	10	6	1	4	11	11	13	34	50	57	14	8	1	1	1	1			1	1	2						12636.2	
1964	34	16	10	14	19	41	39	27	11	12	6		3	1	11	24	12	48	8	10	11	6	3														5168.4
1965		11	1	4	8	34	14	9	41	19	23	6	9	6	2	5	15	18	99	11	10	7	4	5	2	1		1									10896.8
1966					2	4	7	30	12	46	29	17	7	6	17	54	67	28	21	4	3	2	3	1			2	1	2								11989.5
1967						26	17	56	17	20	9	11	4	5	8	58	32	32	31	23	4	7	4	3	3	1	2										10378.2
1968			3	7	10	21	16	59	19	9	7	3	2	8	43	36	35	42	32	5	3	2	2	2													8424.3
1969						1	28	34	38	9	8	2	2	3	6	33	42	54	47	19	15	6	4	5	3	5	1										17830.3
1970			9	6	28	26	24	38	58	4	4		1		2	6	46	66	14	25	1	5	1	1													6236.6
1971			3	1	23	37	34	37	58	19	9	6	1	2	2	8	35	36	34	7	2	6	5														5554.2
1972					1	6	8	31	51	30	15	3	5	1	6	69	11	76	11	17	8	9	3	2			2		1								12998.1
1973				5	4	9	37	33	50	18	11	14	10	4	3	1	18	10	68	19	13	12	25														15009.2
1974	1	1			9	15	31	34	58	63	27	9	6	2	2	10	28	6	26	10	5	1	4	17													7585.1
CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT			
0	0.00	450	11688	100.0	9	1.90	715	7508	64.2	18	35.0	1003	3450	29.5	27	650	92	281	2.4																		
1	0.10	69	11238	96.1	10	2.60	593	6793	58.1	19	48.0	672	2447	20.9	28	900	128	189	1.6																		
2	0.20	100	11170	95.6	11	3.60	384	6200	53.0	20	67.0	490	1775	15.2	29	1300	24	61	.5																		
3	0.30	120	11070	94.7	12	5.00	308	5816	49.8	21	93.0	323	1285	11.0	30	1700	20	37	.3																		
4	0.40	266	10950	93.7	13	6.90	156	5508	47.1	22	130.0	233	962	8.2	31	2400	10	17	.1																		
5	0.50	581	10684	91.4	14	9.50	203	5352	45.8	23	180.0	219	729	6.2	32	3300	7	7	.0																		
6	0.70	705	10103	86.4	15	13.00	320	5149	44.1	24	250.0	80	510	4.4	33	4600																					
7	1.00	915	9398	80.4	16	18.00	614	4829	41.3	25	340.0	70	430	3.7	34																						
8	1.30	975	8483	72.6	17	25.00	765	4215	36.1	26	470.0	79	360	3.1																							

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## WOLF CREEK NEAR FORT SUPPLY, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1944	0.00 1	0.00 1	0.00 1	0.00 1	0.27 7	0.77 11	2.19 16	2.14 14	13.20 17	23.90 7
1945	0.00 2	0.00 2	0.00 2	0.00 2	0.23 5	12.40 27	48.70 31	59.80 31	83.30 31	104.00 27
1946	0.00 3	0.00 3	0.04 9	0.19 8	0.44 9	1.16 20	3.04 19	6.43 17	32.50 27	47.70 21
1947	0.00 4	0.00 4	0.00 3	0.00 3	0.00 1	0.24 3	1.48 12	2.08 13	9.27 15	38.50 19
1948	0.00 5	0.00 5	0.00 4	0.00 4	0.00 2	0.00 1	0.09 1	0.18 1	0.26 1	98.00 26
1949	0.30 19	0.30 18	0.34 16	0.40 13	0.58 14	1.09 17	10.10 24	18.00 25	26.60 24	47.50 20
1950	1.30 31	1.30 30	1.31 29	1.48 28	1.83 28	17.10 28	19.20 27	25.10 27	30.30 26	173.00 28
1951	0.40 22	0.50 22	0.73 24	0.90 25	4.79 30	32.40 30	43.00 30	47.90 30	79.50 30	235.00 30
1952	0.80 28	0.80 28	0.93 27	1.08 27	1.17 25	2.21 24	3.76 20	14.50 24	27.30 25	185.00 29
1953	0.20 16	0.27 16	0.29 12	0.34 11	1.24 26	2.19 23	2.35 17	2.51 15	2.59 10	14.50 2
1954	0.00 6	0.00 6	0.00 5	0.09 7	0.75 19	1.91 22	2.61 18	12.60 22	10.90 16	29.70 11
1955	0.00 7	0.00 7	0.00 6	0.00 5	0.00 3	0.03 2	0.13 2	0.20 2	0.28 2	20.10 5
1956	0.10 12	0.20 12	0.46 20	0.48 18	0.49 11	1.00 14	1.16 10	1.13 9	1.21 7	52.60 24
1957	0.50 23	0.50 23	0.50 21	0.50 21	0.50 12	0.55 8	0.60 5	0.62 4	0.65 3	1.39 1
1958	1.00 29	1.33 31	1.50 31	1.57 29	3.93 29	39.60 31	42.90 29	42.60 29	50.70 29	315.00 31
1959	0.00 8	0.00 8	0.11 10	0.44 15	0.59 15	0.88 13	2.18 15	6.86 18	17.00 19	52.80 25
1960	0.30 20	0.33 20	0.37 18	0.49 19	0.68 18	0.74 10	0.81 7	0.90 7	6.77 13	35.70 15
1961	0.70 24	0.70 26	1.11 28	3.30 31	10.90 31	27.80 29	30.20 28	33.20 28	39.20 28	52.50 22
1962	0.60 24	0.67 24	0.76 25	0.79 23	0.87 22	1.06 16	10.30 25	13.50 23	21.60 22	52.60 23
1963	0.20 17	0.23 13	0.30 13	0.39 12	0.48 10	0.53 7	9.87 23	9.16 19	16.00 18	26.80 9
1964	0.00 9	0.00 9	0.00 7	0.20 9	0.25 6	0.52 6	0.65 6	0.72 6	0.86 5	28.90 10
1965	0.10 10	0.00 10	0.00 8	0.00 6	0.20 4	0.26 4	0.27 3	0.33 3	0.81 4	15.90 4
1966	0.10 13	0.30 17	0.34 14	0.43 14	0.65 16	8.75 26	8.33 22	18.90 26	22.40 23	36.10 16
1967	0.70 27	0.79 27	0.84 26	0.91 26	0.96 24	1.10 18	1.22 11	3.21 16	3.80 11	23.00 6
1968	1.00 30	1.13 29	1.46 30	1.58 30	1.75 27	2.65 25	7.63 21	10.70 20	18.70 20	32.90 12
1969	0.32 21	0.36 21	0.41 19	0.50 20	0.67 17	0.86 12	11.40 26	11.30 21	21.10 21	38.30 18
1970	0.69 25	0.70 25	0.72 23	0.79 24	0.94 23	1.11 19	1.14 9	1.18 10	6.20 12	33.00 13
1971	0.20 14	0.20 11	0.20 11	0.26 10	0.39 8	0.48 5	0.59 4	0.66 5	0.88 6	15.00 3
1972	0.20 15	0.23 14	0.34 15	0.47 16	0.55 13	0.62 9	0.87 8	1.05 8	7.42 14	35.20 14
1973	0.30 18	0.32 19	0.35 17	0.47 17	0.76 20	1.04 15	1.50 13	1.68 11	2.14 9	25.80 8
1974	0.00 11	0.25 15	0.64 22	0.66 22	0.83 21	1.31 21	1.54 14	1.78 12	1.75 8	37.30 17

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## WOLF CREEK NEAR FORT SUPPLY, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1943	344.0 22	328.0 22	303.0 19	279.0 14	221.0 11	144.0 11	123.0 11	105.0 11	70.7 13	42.1 14
1944	2540.0 3	1720.0 5	1010.0 7	576.0 7	337.0 7	194.0 7	140.0 7	160.0 6	121.0 6	71.9 6
1945	2540.0 4	2160.0 3	1070.0 6	517.0 8	281.0 8	160.0 9	126.0 10	119.0 8	98.8 8	65.6 8
1946	986.0 15	960.0 12	834.0 9	433.0 9	223.0 10	117.0 14	87.1 15	75.4 15	62.7 16	38.0 16
1947	2670.0 2	2610.0 2	2060.0 2	1200.0 3	753.0 5	498.0 5	380.0 5	311.0 5	220.0 5	130.0 5
1948	1283.0 11	889.0 14	447.0 16	210.0 18	106.0 21	85.7 20	64.1 22	56.2 23	43.5 23	21.9 26
1949	2160.0 5	2110.0 4	2040.0 3	1830.0 2	1360.0 2	800.0 4	593.0 4	461.0 4	338.0 4	178.0 4
1950	1320.0 10	1310.0 8	1270.0 4	1170.0 4	1110.0 3	899.0 3	692.0 2	536.0 2	396.0 2	218.0 2
1951	1220.0 12	1220.0 10	1190.0 5	1150.0 5	1110.0 4	925.0 2	625.0 3	488.0 3	351.0 3	197.0 3
1952	533.0 23	236.0 24	172.0 25	132.0 24	99.7 22	84.6 22	78.1 19	73.2 16	63.5 15	37.1 17
1953	590.0 21	403.0 21	175.0 24	82.7 26	55.7 30	28.9 31	20.0 31	15.9 31	11.6 31	7.8 31
1954	1360.0 8	1280.0 9	690.0 11	326.0 12	169.0 16	104.0 17	80.3 18	66.1 19	54.9 19	44.0 13
1955	1640.0 6	1370.0 6	855.0 8	620.0 6	401.0 6	299.0 6	202.0 6	152.0 6	100.0 7	50.3 11
1956	21.0 32	21.0 32	21.0 32	21.0 32	20.5 32	13.4 32	10.0 32	9.1 32	6.3 32	3.6 32
1957	4550.0 1	3990.0 1	2970.0 1	2040.0 1	1450.0 1	1160.0 1	1020.0 1	830.0 1	574.0 1	288.0 1
1958	1320.0 9	916.0 13	478.0 13	345.0 11	224.0 9	173.0 8	129.0 9	109.0 10	96.4 9	68.7 7
1959	187.0 27	187.0 27	146.0 26	89.7 25	63.2 28	55.6 25	51.3 25	47.3 25	43.4 24	25.8 24
1960	718.0 18	504.0 19	305.0 18	207.0 19	116.0 20	96.4 18	85.2 16	73.2 17	74.1 12	51.9 10
1961	800.0 16	719.0 16	475.0 14	265.0 16	180.0 14	153.0 10	132.0 8	110.0 9	89.4 10	57.9 9
1962	176.0 29	160.0 28	121.0 29	77.1 27	71.7 25	46.0 27	43.5 27	42.3 26	40.5 25	28.8 22
1963	1530.0 7	1310.0 7	767.0 10	406.0 10	219.0 12	111.0 16	81.6 17	69.7 18	58.8 16	34.6 19
1964	131.0 31	130.0 31	92.9 31	70.1 31	53.5 31	42.6 30	34.9 30	29.9 30	27.7 30	14.1 30
1965	765.0 17	475.0 20	280.0 21	181.0 21	134.0 19	85.7 21	63.3 23	58.6 21	51.0 20	29.9 21
1966	1160.0 13	991.0 11	550.0 12	277.0 15	141.0 18	80.3 23	60.5 24	56.4 22	49.5 21	32.8 20
1967	649.0 20	531.0 18	291.0 20	175.0 22	92.4 24	87.6 19	66.2 21	54.2 24	44.8 22	28.4 23
1968	254.0 24	240.0 23	125.0 28	72.7 29	65.4 27	43.4 29	37.0 28	36.4 28	35.5 27	23.0 25
1969	654.0 19	609.0 17	374.0 17	259.0 17	168.0 17	114.0 15	93.0 14	85.3 13	68.3 14	48.9 12
1970	180.0 28	146.0 29	97.3 30	74.7 28	66.7 26	47.6 26	43.9 26	43.1 27	33.2 26	17.1 28
1971	143.0 30	142.0 30	135.0 27	71.4 30	56.2 29	44.1 28	36.4 29	33.4 29	29.3 29	15.2 29
1972	993.0 14	755.0 15	462.0 15	309.0 13	202.0 13	128.0 13	98.1 13	83.8 14	62.0 17	35.5 18
1973	215.0 26	213.0 25	190.0 23	166.0 20	175.0 15	133.0 12	107.0 12	98.5 12	79.4 11	41.1 15
1974	215.0 25	212.0 26	197.0 22	141.0 23	92.9 23	67.1 24	67.2 20	59.1 20	39.5 26	20.8 27

## ARKANSAS RIVER BASIN

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07237500 NORTH CANADIAN RIVER AT WOODWARD, OKLA.

LOCATION.--Lat 36°26'18", long 99°16'40", in SE 1/4 SE 1/4 sec.25, T.23 N., R.20 W., Woodward County, near right bank on downstream side of pier of bridge on State Highway 15, 200 ft (61.0 m) downstream from The Atchison, Topeka and Santa Fe Railway Co. bridge, 6.0 mi (9.7 km) east of Woodward, 7.2 mi (11.6 km) upstream from Indian Creek, 27.5 mi (44.2 km) downstream from Wolf Creek, and at mile 460.2 (740.5 km).

DRAINAGE AREA.--11,589 mi<sup>2</sup> (30,016 km<sup>2</sup>), of which 4,812 mi<sup>2</sup> (12,463 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD.--October 1905 to June 1906, October 1938 to September 1974. Statistical summaries for this station are divided into unregulated and regulated periods.

AVERAGE DISCHARGE.--4 years (1939-42), 330 ft<sup>3</sup>/s (9.34 m<sup>3</sup>/s); 32 years (1943-74), 194 ft<sup>3</sup>/s (5.49 m<sup>3</sup>/s).

REMARKS.--Some regulation since May 1942 by Fort Supply Lake on Wolf Creek 33 mi (5.3 km) upstream.

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

## NORTH CANADIAN RIVER AT WOODWARD, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS
1939	83	34		1	5	27	1	2	2	9	1	28	5	26	36	24	12	4	9	7	12	10		4	5	1	2	3	3	2	4		1	2	88681.0
1940	222	7		9	11	10	1	7	4	12	5	7	2	3	5	6	8	5	9	3	10	6		3	1	3	3	1	1				2		40693.0
1941	53	19		2	4	3	1	9	7	12	5	13	17	16	17	21	34	13	12	6	14	12	21	16	13	1	3	5	5	2	4	4	1	160715.0	
1942	18	15		8	4	4		3	2	1	2	4	2	4	1	13	21	40	62	38	30	22	25	15	5	7	1	4	3	2	4	3	1	1	191567.0

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	376	1461	100.0	9	10.00	34	883	60.4	18	140.0	92	449	30.7	27	1900	13	55	3.7
1	1.00	75	1085	74.3	10	14.00	13	849	58.1	19	190.0	54	357	24.4	28	2600	11	42	2.8
2	1.30	0	1010	69.1	11	18.00	52	836	57.2	20	250.0	66	303	20.7	29	3500	8	31	2.1
3	1.80	20	1010	69.1	12	25.00	26	784	53.7	21	340.0	50	237	16.2	30	4600	8	23	1.5
4	2.40	24	990	67.8	13	33.00	49	758	51.9	22	450.0	50	187	12.8	31	6200	10	15	1.0
5	3.20	44	966	66.1	14	44.00	59	709	48.5	23	610.0	39	137	9.4	32	8300	2	5	.3
6	4.30	3	922	63.1	15	59.00	64	650	44.5	24	810.0	20	98	6.7	33	11000	2	3	.2
7	5.70	21	919	62.9	16	79.00	75	586	40.1	25	1100.0	13	78	5.3	34	15000	1	1	.0
8	7.70	15	898	61.5	17	110.00	62	511	35.0	26	1500.0	10	65	4.4					

## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## NORTH CANADIAN RIVER AT WOODWARD, OKLAHOMA

YEAR	1		3		7		14		30		60		90		120		183		ANNUAL	
1906	0.00	1	0.00	1	0.00	1	1.57	3	7.07	3	23.10	3	45.00	3	61.60	3	82.00	3	186.00	2
1940	0.00	2	0.00	2	0.00	2	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.38	1	228.00	3
1941	0.00	3	0.00	3	0.00	3	0.00	2	0.00	2	0.62	2	1.83	2	6.71	2	19.90	2	126.00	1
1942	2.00	4	2.33	4	4.29	4	31.60	4	90.20	4	155.00	4	170.00	4	195.00	4	677.00	4	762.00	4

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## NORTH CANADIAN RIVER AT WOODWARD, OKLAHOMA

YEAR	1		3		7		15		30		60		90		120		183		ANNUAL	
1939	9600.0	3	6070.0	3	3630.0	3	3150.0	2	1670.0	3	917.0	3	805.0	3	679.0	3	472.0	3	243.0	3
1940	7090.0	4	3550.0	4	1950.0	4	1180.0	4	825.0	4	453.0	4	420.0	4	329.0	4	222.0	4	111.0	4
1941	14900.0	2	8850.0	2	4830.0	2	2710.0	3	2560.0	2	1790.0	1	1410.0	1	1110.0	1	849.0	1	440.0	2
1942	25100.0	1	16100.0	1	9440.0	1	5120.0	1	2820.0	1	1640.0	2	1190.0	2	936.0	2	672.0	2	525.0	1



## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

NORTH CANADIAN RIVER AT WOODWARD, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34		
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS		
1943	79									4	2	4	1	6	10	12	39	49	25	34	54	21	11	7	3	2	2									36971.0	
1944	105									24	18	9	9	11	6	10	14	30	17	18	33	18	18	7	7	6	2	3	1							54808.0	
1945	56							1				2		10	14	31	16	16	12	33	58	61	33	7	1	9	2	2	1							45433.2	
1946	64						2	4	4	8	17	26	2	14	11	8	24	25	61	45	17	12	6	5	3	5	2									21895.9	
1947	42							1		2	1	1	4	4	1	4	4	3	6	15	35	47	63	40	25	38	14	6	7	4			1		1	198061.6	
1948	56							3	15	5	37	7	2	7	7	15	23	12	14	22	44	42	17	16	7	8	3	2	1							48952.5	
1949	13							3	2	8	3	1			1	4	10	23	22	49	41	49	30	20	25	11	7	14	23	5		1				198559.3	
1950															1	4	8	16	25	77	38	45	34	15	11	11	26	24	15	5	8	2			288175.9		
1951																6	8	19	14	44	29	81	50	36	8	8	38	11	6	2	1		2	2	256282.1		
1952	90							3		3	1	1	1	2	1	10	11	12	4	5	20	55	98	36	7	5	1									34311.4	
1953	88							7	5	13	22	23	13	18	19	28	29	37	13	11	8	12	4	4	1	2	3	2			3					20480.3	
1954	75							3	3	9	7	4	5	6	5	1	2	38	33	76	56	14	8	8	3	5	1	3								19648.0	
1955	117							2		11	18	59	28	6	5	1	7	7	4	11	6	9	10	8	10	9	9	6	8	7	2	5				120276.8	
1956	131						1		7	33	49	31	7	17	18	8	7	13	12	4	5	8	11	2	1	1										7359.2	
1957	173									2	3	2	2	11	4	4	10	8	6	3	7	9	21	19	37	17	10	9	9			1				185946.4	
1958										1	2	1	2	2	5	8	3	10	75	108	61	40	11	16	9	8	2	1								71409.9	
1959	39									3	1	1	3	35	41	24	26	34	76	50	22	8	2													27341.5	
1960										3	13	11	13	13	45	15	29	23	49	35	57	29	17	6	6	2											38982.9
1961														9	5	7	23	4	11	38	40	86	58	32	30	8	9	4	1							56381.0	
1962	22						1		3	3	7	16	11	12	4	10	17	20	35	47	65	55	15	7	8	6	1									34894.0	
1963	49								1	3	4	2	14	15	28	22	29	42	43	51	42	10	3	2	1	1			3							21524.4	
1964	121						1	1	1	2	14	26	18	7	14	10	31	41	40	23	9	1	1	1	1	2			1							10967.2	
1965	42													2	20	10	7	21	37	44	64	46	13	10	9	9	13	5	7	2	4					80344.4	
1966	13	2				2		2	1	3	2	3	7	6	7	6	22	24	24	26	79	79	37	10	4	1	2	3									28281.7
1967										2	7	6	23	39	13	7	14	38	62	44	34	23	10	13	10	9	5	4	1	1							35070.5
1968																1	15	36	29	58	51	76	23	28	14	13	8	6	3	3	1	1				52460.8	
1969										2	1	3	5	2	8	10	7	6	12	5	15	63	76	78	37	16	8	5	1	2	3					93058.9	
1970	31			1	2	1	1	4		7	4	8	6	6	5	7	6	15	13	56	54	87	31	16	2	2										22692.1	
1971	37	1		3	1		5	1	4	4	4	37	45	26	17	24	16	22	66	20	11	13	4	2	1		1									11153.9	
1972	9			1	1	1	3	2		2	6	5	6	15	7	14	10	13	19	54	31	45	66	20	16	7	2	4	4	1	2					60904.0	
1973	11	1							1	3	1	3	8	40	41	29	14	13	13	14	4	24	64	26	11	7	29	5	2	1						65249.6	
1974	18				1		2		1	4	6	11	10	34	37	42	25	23	38	47	33	16	5	9	3											16700.7	

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	1481	11688	100.0	9	0.50	134	10025	85.8	18	30.0	969	6614	56.6	27	1700	106	253	2.1
1	0.01	4	10207	87.3	10	0.80	290	9891	84.6	19	47.0	1170	5645	48.3	28	2600	84	147	1.2
2	0.02	0	10203	87.3	11	1.30	302	9601	82.1	20	73.0	1267	4475	38.3	29	4100	39	63	.5
3	0.03	5	10203	87.3	12	2.10	289	9299	79.6	21	110.0	1205	3208	27.4	30	6300	15	24	.2
4	0.05	7	10198	87.3	13	3.20	310	9010	77.1	22	180.0	686	2003	17.1	31	9900	4	9	.0
5	0.09	2	10191	87.2	14	5.00	346	8700	74.4	23	280.0	401	1317	11.3	32	15000	2	5	.0
6	0.10	37	10189	87.2	15	7.80	478	8354	71.5	24	440.0	240	916	7.8	33	24000	3	3	.0
7	0.20	27	10152	86.9	16	12.00	565	7876	67.4	25	680.0	250	676	5.8	34				
8	0.30	100	10125	86.6	17	19.00	697	7311	62.6	26	1100.0	173	426	3.6					

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## NORTH CANADIAN RIVER AT WOODWARD, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1944	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	15.50 16	11.80 14	22.10 12	40.10 7
1945	0.00 2	0.00 2	0.00 2	0.00 2	0.00 2	12.60 21	49.40 24	66.70 25	98.40 27	192.00 22
1946	0.00 3	0.00 3	0.00 3	0.00 3	0.00 3	0.21 9	19.60 19	23.90 18	60.10 21	98.90 12
1947	0.00 4	0.00 4	0.00 4	0.00 4	0.00 4	1.10 12	7.06 15	6.21 13	39.10 16	312.00 26
1948	0.00 5	0.00 5	0.00 5	0.00 5	0.00 5	0.00 2	0.05 4	0.56 6	1.17 4	278.00 25
1949	0.00 6	0.00 6	0.00 6	0.01 16	0.21 15	21.20 24	35.90 23	43.10 23	95.20 26	173.00 20
1950	9.60 31	9.60 31	12.00 30	14.80 30	37.60 29	89.00 30	108.00 30	115.00 29	123.00 29	541.00 28
1951	5.80 28	8.63 29	14.60 31	34.60 31	45.00 30	104.00 31	128.00 31	133.00 31	205.00 30	823.00 31
1952	6.10 29	7.17 28	8.46 28	10.00 28	11.00 25	17.50 23	30.70 22	42.40 22	69.70 23	659.00 30
1953	0.00 7	0.00 7	0.00 7	0.00 6	0.00 6	0.00 3	0.00 1	0.00 1	0.13 3	39.90 5
1954	0.00 8	0.00 8	0.00 8	0.00 7	0.04 13	4.69 18	4.11 12	38.30 21	51.90 18	80.80 9
1955	0.00 9	0.00 9	0.00 9	0.00 8	0.00 7	0.00 4	0.00 2	0.00 2	0.02 2	27.20 2
1956	0.00 10	0.00 10	0.00 10	0.00 9	0.00 8	0.07 7	0.29 6	0.48 5	3.97 7	330.00 27
1957	0.00 11	0.00 11	0.00 11	0.00 10	0.00 9	0.00 5	0.00 3	0.00 3	0.00 1	18.30 1
1958	2.00 25	3.33 26	5.20 27	6.50 26	45.80 31	69.90 27	74.50 28	76.20 26	90.20 24	557.00 29
1959	1.00 24	1.50 24	2.93 24	7.25 27	9.71 23	11.60 20	20.20 20	36.50 20	59.00 20	179.00 21
1960	0.00 12	0.00 12	0.00 12	0.00 11	0.00 10	2.54 14	3.24 11	4.49 9	21.50 11	91.40 11
1961	0.80 23	1.23 23	1.47 23	3.02 23	16.40 27	58.80 26	64.60 26	85.70 28	111.00 28	124.00 15
1962	0.50 22	0.60 22	0.89 22	1.37 21	2.11 20	4.10 16	17.40 17	30.40 19	55.30 19	125.00 16
1963	0.00 13	0.00 13	0.00 13	0.09 18	0.26 16	7.84 19	22.10 21	21.60 16	29.00 13	83.60 10
1964	0.00 14	0.00 14	0.00 14	0.00 12	0.00 11	0.20 8	0.47 7	0.84 7	1.90 5	44.90 8
1965	0.00 15	0.00 15	0.00 15	0.00 13	0.00 12	0.00 6	0.06 5	0.14 4	2.76 6	33.80 3
1966	9.00 30	9.33 30	9.84 29	13.50 29	32.60 28	75.10 28	74.10 27	85.30 27	90.70 25	257.00 24
1967	0.00 16	0.00 16	0.00 16	0.10 19	1.29 19	1.75 13	2.45 10	5.74 12	13.80 10	35.70 4
1968	2.30 26	2.73 25	3.03 25	4.16 24	9.87 24	15.70 22	18.90 18	21.60 17	33.60 15	106.00 13
1969	4.10 27	4.43 27	4.91 26	5.76 25	15.70 26	85.60 29	97.00 29	129.00 30	231.00 31	256.00 23
1970	0.38 21	0.54 21	0.78 21	1.46 22	6.78 22	29.00 25	51.10 25	56.80 24	64.90 22	159.00 19
1971	0.00 17	0.00 17	0.00 17	0.00 14	0.37 17	1.07 11	1.50 8	1.87 8	5.14 8	40.10 6
1972	0.00 18	0.00 18	0.00 18	0.00 15	0.09 14	0.75 10	2.44 9	5.00 10	29.70 14	115.00 14
1973	0.00 19	0.00 19	0.00 19	0.22 20	2.33 21	4.12 17	6.96 14	21.10 15	49.80 17	146.00 18
1974	0.00 20	0.00 20	0.00 20	0.04 17	0.98 18	2.57 15	4.57 13	5.15 11	6.81 9	130.00 17

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## NORTH CANADIAN RIVER AT WOODWARD, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1943	2380.0 20	1970.0 17	1230.0 17	803.0 15	570.0 15	340.0 16	276.0 17	235.0 17	169.0 17	101.0 18
1944	4220.0 12	2580.0 13	1710.0 12	1120.0 13	833.0 11	527.0 11	373.0 12	379.0 11	275.0 11	150.0 13
1945	3980.0 13	2820.0 12	1400.0 15	662.0 19	357.0 21	217.0 22	210.0 20	182.0 19	175.0 19	124.0 16
1946	1370.0 24	1230.0 23	1040.0 20	537.0 21	279.0 23	144.0 27	102.0 29	87.9 29	79.7 27	60.0 25
1947	24100.0 2	13500.0 2	7790.0 2	4240.0 4	2360.0 5	1380.0 6	982.0 6	790.0 6	585.0 6	543.0 4
1948	5470.0 7	3290.0 11	2250.0 10	1180.0 12	640.0 14	489.0 13	366.0 13	290.0 13	240.0 14	134.0 15
1949	7960.0 6	5900.0 6	4120.0 6	3370.0 6	3310.0 3	2350.0 3	1780.0 4	1390.0 4	1010.0 4	564.0 3
1950	11200.0 4	9370.0 3	7510.0 3	6860.0 2	4370.0 2	3410.0 1	2790.0 1	2120.0 1	1450.0 1	790.0 1
1951	30500.0 1	26200.0 1	15200.0 1	7870.0 1	4810.0 1	3300.0 2	2350.0 2	1820.0 2	1270.0 2	702.0 2
1952	751.0 29	641.0 28	555.0 27	427.0 23	304.0 22	238.0 20	210.0 21	194.0 18	167.0 18	93.7 21
1953	3160.0 14	2430.0 14	1490.0 14	749.0 16	554.0 16	318.0 17	213.0 18	162.0 22	108.0 23	56.1 27
1954	1310.0 25	1240.0 22	645.0 24	315.0 27	223.0 25	147.0 25	110.0 28	88.1 28	75.2 29	53.8 28
1955	8750.0 5	7620.0 4	5040.0 5	3390.0 5	1990.0 6	1870.0 5	1320.0 5	996.0 5	657.0 5	330.0 6
1956	761.0 28	540.0 29	362.0 31	211.0 31	108.0 32	100.0 31	72.9 31	55.2 32	39.0 32	20.1 32
1957	11600.0 3	7400.0 5	6020.0 4	4810.0 3	2900.0 4	2220.0 4	1810.0 3	1470.0 3	1020.0 3	509.0 5
1958	2970.0 15	1830.0 18	1100.0 19	906.0 14	657.0 13	515.0 12	496.0 9	384.0 9	300.0 9	196.0 9
1959	609.0 30	467.0 32	422.0 29	282.0 30	217.0 26	167.0 24	147.0 23	137.0 23	121.0 22	74.9 23
1960	1680.0 22	1130.0 24	606.0 25	353.0 25	252.0 24	229.0 21	194.0 22	169.0 21	155.0 20	107.0 17
1961	2370.0 21	1490.0 20	910.0 21	522.0 22	361.0 20	305.0 18	289.0 16	242.0 16	206.0 15	154.0 12
1962	1460.0 23	950.0 26	668.0 23	602.0 20	504.0 17	277.0 19	212.0 19	181.0 20	153.0 21	95.6 20
1963	2540.0 18	2300.0 15	1300.0 16	698.0 18	381.0 19	196.0 23	142.0 24	125.0 24	102.0 25	59.0 26
1964	2460.0 19	1400.0 21	783.0 22	391.0 24	216.0 27	116.0 30	83.3 30	72.5 31	59.3 30	30.0 31
1965	4780.0 10	3850.0 8	2780.0 7	1810.0 7	1570.0 7	1040.0 7	754.0 7	604.0 7	417.0 7	220.0 8
1966	1240.0 26	1030.0 25	587.0 26	302.0 28	177.0 30	120.0 29	112.0 27	107.0 26	104.0 24	77.5 22
1967	2630.0 17	1790.0 19	1150.0 18	745.0 17	477.0 18	436.0 15	330.0 15	252.0 15	176.0 16	96.1 19
1968	4740.0 11	3570.0 10	1900.0 11	1330.0 10	897.0 9	575.0 9	411.0 11	358.0 12	253.0 13	143.0 14
1969	5130.0 9	4390.0 7	2760.0 8	1530.0 8	894.0 8	536.0 10	422.0 10	381.0 10	292.0 10	255.0 7
1970	598.0 31	494.0 31	303.0 32	187.0 32	185.0 29	137.0 28	120.0 25	111.0 25	95.6 26	62.2 24
1971	1130.0 27	679.0 27	446.0 28	283.0 29	156.0 31	84.6 32	69.6 32	73.6 30	57.2 31	30.6 30
1972	5260.0 8	3720.0 9	2430.0 9	1350.0 9	795.0 12	469.0 14	351.0 14	286.0 14	257.0 12	166.0 11
1973	2830.0 16	2100.0 16	1590.0 13	1310.0 11	1100.0 8	799.0 8	585.0 8	480.0 8	350.0 8	179.0 10
1974	575.0 32	504.0 30	417.0 30	324.0 26	207.0 28	144.0 26	117.0 26	105.0 27	76.1 28	45.8 29

## ARKANSAS RIVER BASIN

## 07238000 NORTH CANADIAN RIVER NEAR SEILING, OKLA.

LOCATION.--Lat 36°11'06", long 98°55'15", in NW 1/4 sec.28, T.20 N., R.16 W., Major County, near center of span on downstream side of pier of bridge on U.S. Highway 60, 2.0 mi (3.2 km) upstream from Seiling Creek, 2.2 mi (3.5 km) north of Seiling, 2.8 mi (4.5 km) downstream from Deep Creek, and at mile 422.6 (680.0 km).

DRAINAGE AREA.--12,261 mi<sup>2</sup> (31,756 km<sup>2</sup>), of which 4,847 mi<sup>2</sup> (12,554 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD.--July 1946 to September 1974.

AVERAGE DISCHARGE.--28 years (1947-74), 230 ft<sup>3</sup>/s (6.51 m<sup>3</sup>/s).

REMARKS.--Some regulation by Fort Supply Lake on Wolf Creek 70.6 mi (113.6 km) upstream.

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

## NORTH CANADIAN RIVER NEAR SEILING, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS	
1947	47						1	1		1	1	1	2	3	2	2	1	5	8	17	44	71	43	39	36	15	11	8	3	2		1				220976.3
1948	138						2	1	3				1	2	14	10	16	16	27	46	29	20	13	12	7	4	1	3	1							55588.4
1949										4	5	6	12	1	3			7	29	19	67	48	47	23	24	18	7	17	19	8		1				224019.1
1950																1	3	9	12	28	87	58	49	12	12	11	20	34	14	8	7					292471.0
1951																4	7	14	17	10	56	60	81	34	8	13	32	18	5	1	1	1	2	1		257534.0
1952	100													1	7	16	5	6	8	22	60	73	51	6	8	2										37996.4
1953	186						3	9	3	2	5	5	13	17	13	13	35	14	9	4	12	2	5	3	4	2	3	2	1							20517.9
1954	108						1			1	1	1	2	2	2	22	55	82	41	12	14	5	6	4	5			1								22675.3
1955	236						4	1	1		2	1	1	1	3	1	9	6	8	7	11	10	8	6	8	10	11	4	3	5						125205.6
1956	161						1	6	24	14	13	12	48	14	10	13	13	6	7	5	6	6	4	2	1											5123.6
1957	176										2	1	1		6	8	10	7	8	5	2	11	20	22	30	16	19	7	11	2	1				224656.1	
1958												2	1	1	4	6	4	11	17	157	42	67	11	14	10	12	5	1								86550.4
1959	28						3	1		1	2	2		3	4	32	32	36	28	30	55	49	39	9	6	3		2								39338.4
1960													1	5	7	56	28	18	32	56	58	54	19	14	7	4										55282.6
1961													1	3	5	9	23	10	12	43	79	59	64	38	9	4	6									64690.9
1962	27						1	1			1	3	15	12	10	7	16	17	20	46	75	69	17	12	8	4	4									43221.4
1963	62							1	2	2		2	4	6	9	9	27	49	45	70	38	26	5	3		1	2	2								25217.4
1964	163						1		2		3	9	17	9	11	6	16	31	49	26	15	1	2	3	1		1									9650.1
1965	45							1					2	10	4	4	10	25	41	68	66	17	14	12	14	16	4	6	6							64766.9
1966	41	1	1	1	2		3	2	5	5	3	4	3	4	5	9	14	19	21	25	110	61	14	5	3	3	1									32638.7
1967	32							1			5	11	10	13	12	9	11	21	25	94	20	35	12	23	14	7	7	2	1							35939.4
1968													1	2	16	15	30	49	53	87	36	19	17	15	8	7	3	4	2							53412.3
1969											5	6	2	6	6	8	8	7	8	7	14	60	55	74	52	22	12	7	1	5						101643.3
1970	42	2		3	6		6	6	4		2	2	2	5	1	3	5	6	8	64	48	94	26	15	10	1		1	1							28264.0
1971	99	1	2		8		5	14	8	7	5	20	22	12	11	11	10	31	43	20	12	11	6	3	2	2										12240.6
1972	14						4	5	3	4	2	7	4	10	4	6	7	9	21	72	72	56	26	17	10	1	4	4	4							65343.3
1973	3			1	1	1	13	6	11	6	4	3	2	11	15	38	33	23	11	14	27	45	31	15	10	25	8	6	2							83649.3
1974	25		1	1	4	1	6	7	4	3			3	4	3	4	21	69	39	39	51	32	17	14	6	4		1	1	1						41030.4

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	1733	10227	100.0	9	0.60	64	8271	80.9	18	51.0	777	6255	61.2	27	1700	147	289	2.8
1	0.01	4	8494	83.1	10	0.90	70	8207	80.2	19	48.0	850	5478	53.6	28	2700	82	142	1.3
2	0.02	4	8490	83.0	11	1.30	92	8137	79.6	20	75.0	1417	4628	45.3	29	4200	36	60	.5
3	0.03	6	8486	83.0	12	2.10	179	8045	78.7	21	120.0	964	3211	31.4	30	6500	17	24	.2
4	0.05	23	8480	82.9	13	3.10	150	7866	76.9	22	180.0	837	2227	21.8	31	10000	3	7	.0
5	0.04	2	8457	82.7	14	5.10	170	7716	75.4	23	290.0	420	1390	13.6	32	16000	3	4	.0
6	0.10	55	8455	82.7	15	8.00	257	7546	73.8	24	450.0	277	970	9.5	33	25000	1	1	
7	0.20	60	8400	82.1	16	13.00	449	7289	71.3	25	700.0	238	693	6.8	34				
8	0.40	69	8340	81.5	17	20.00	545	6840	66.9	26	1100.0	166	455	4.4					

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## NORTH CANADIAN RIVER NEAR SEILING, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1948	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	325.00 22
1949	0.10 15	0.27 15	0.40 16	1.23 15	2.13 15	26.44 20	44.30 20	54.10 20	126.00 22	207.00 18
1950	22.00 27	22.30 27	22.70 26	26.90 25	57.70 25	106.00 26	124.00 26	130.00 26	134.00 25	603.00 24
1951	12.00 25	12.70 25	22.90 27	54.40 27	63.80 27	127.00 27	150.00 27	157.00 27	249.00 27	845.00 27
1952	0.50 24	7.07 23	9.61 23	10.70 22	15.10 22	21.30 19	33.30 17	45.80 16	73.50 20	645.00 25
1953	0.00 2	0.00 2	0.00 2	0.00 2	0.00 2	0.00 2	0.00 2	0.00 2	0.00 2	45.50 5
1954	0.00 3	0.00 3	0.00 3	0.00 3	0.03 11	4.45 12	7.90 12	36.90 15	47.10 14	79.70 8
1955	0.00 4	0.00 4	0.00 4	0.00 4	0.00 3	0.00 3	0.00 3	0.00 3	0.00 3	37.40 4
1956	0.00 5	0.00 5	0.00 5	0.00 5	0.00 4	0.00 4	0.12 8	0.44 8	3.77 6	344.00 23
1957	0.00 6	0.00 6	0.00 6	0.00 6	0.00 5	0.00 5	0.00 4	0.00 4	4.40 7	14.40 1
1958	1.70 16	9.67 24	11.10 24	13.50 23	56.10 24	86.10 23	87.20 24	88.40 22	100.00 21	668.00 26
1959	2.50 20	3.37 20	6.63 21	9.69 21	11.10 19	15.70 17	21.70 15	35.50 14	64.00 16	217.00 19
1960	0.00 7	0.00 7	0.00 7	0.00 7	0.14 13	11.70 16	33.70 18	52.10 19	62.70 15	147.00 13
1961	1.50 22	4.37 21	5.74 20	13.60 24	34.00 23	74.00 22	78.90 23	113.00 24	134.00 24	153.00 14
1962	1.70 19	1.83 14	2.24 17	3.04 17	4.45 16	10.60 14	25.70 16	34.90 16	64.50 17	145.00 12
1963	0.00 8	0.00 8	0.00 8	0.00 8	0.04 12	9.77 13	37.70 19	40.00 17	47.00 13	105.00 9
1964	0.00 9	0.00 9	0.00 9	0.00 9	0.00 6	0.00 6	0.01 7	0.02 6	0.62 4	48.60 6
1965	0.00 10	0.00 10	0.00 10	0.00 10	0.00 7	0.00 7	0.00 5	0.00 5	5.15 8	34.60 3
1966	17.00 26	14.00 26	21.70 25	33.60 26	59.50 26	97.00 25	96.70 25	112.00 23	132.00 23	261.00 21
1967	0.00 11	0.00 11	0.00 11	0.00 11	0.00 8	0.46 10	1.33 10	3.38 10	6.47 9	31.70 2
1968	0.30 23	1.57 22	6.77 22	8.62 20	13.50 21	16.50 18	20.80 14	24.90 12	40.10 12	112.00 11
1969	1.20 17	1.40 17	2.43 18	4.50 18	12.50 20	19.10 24	74.50 22	127.00 25	214.00 26	257.00 20
1970	0.81 16	0.88 16	0.77 15	1.34 16	6.45 17	28.00 21	54.00 21	61.10 21	65.00 18	183.00 16
1971	0.00 12	0.00 12	0.00 12	0.00 12	0.00 9	0.00 8	0.01 6	0.25 7	1.01 5	52.90 7
1972	0.00 13	0.00 13	0.00 13	0.00 13	0.00 10	0.17 9	0.68 9	1.55 9	33.30 11	108.00 10
1973	2.40 21	2.83 19	3.57 19	4.81 19	7.29 18	11.10 15	14.30 13	24.90 13	68.40 19	185.00 17
1974	0.00 14	0.00 14	0.05 14	0.14 14	0.26 14	0.55 11	4.52 11	13.80 11	26.30 10	182.00 15

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## NORTH CANADIAN RIVER NEAR SEILING, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1947	21200.0 2	12400.0 2	7270.0 2	4000.0 4	2250.0 5	1390.0 6	1120.0 6	935.0 6	695.0 5	605.0 5
1948	4920.0 6	2670.0 13	1450.0 11	1160.0 12	600.0 13	585.0 11	430.0 11	333.0 12	279.0 11	152.0 13
1949	10200.0 4	7090.0 6	4510.0 6	3430.0 5	3590.0 3	2530.0 4	1980.0 4	1550.0 4	1140.0 4	614.0 4
1950	8370.0 5	7500.0 4	6080.0 4	5870.0 2	3960.0 2	3300.0 1	2730.0 1	2100.0 1	1450.0 1	801.0 1
1951	29100.0 1	24000.0 1	14500.0 1	7510.0 1	4600.0 1	3170.0 2	2260.0 2	1760.0 3	1240.0 2	706.0 2
1952	880.0 27	748.0 27	662.0 23	543.0 20	373.0 20	286.0 19	248.0 17	223.0 17	188.0 16	104.0 19
1953	3240.0 13	2160.0 14	1780.0 14	660.0 17	540.0 15	319.0 17	214.0 20	164.0 21	110.0 24	56.2 25
1954	1750.0 20	944.0 23	632.0 24	438.0 24	277.0 24	211.0 23	152.0 24	121.0 25	95.3 25	62.1 24
1955	7900.0 6	7500.0 5	4990.0 5	3390.0 6	2120.0 6	1980.0 5	1380.0 5	1040.0 5	684.0 6	343.0 6
1956	547.0 24	424.0 28	248.0 28	166.0 28	84.9 28	57.8 28	48.2 28	36.5 28	25.8 28	14.0 28
1957	11300.0 3	6050.0 3	6980.0 3	5680.0 3	3390.0 4	2670.0 3	2170.0 3	1780.0 2	1220.0 3	615.0 3
1958	3370.0 12	1910.0 15	1280.0 15	1170.0 11	807.0 11	627.0 9	544.0 9	465.0 9	370.0 9	237.0 8
1959	2340.0 16	1470.0 17	682.0 22	479.0 22	359.0 22	277.0 20	229.0 19	205.0 19	165.0 20	108.0 18
1960	1580.0 25	1140.0 21	788.0 19	535.0 21	371.0 21	326.0 16	273.0 16	236.0 16	220.0 15	151.0 14
1961	1400.0 23	1150.0 20	866.0 18	569.0 14	400.0 18	354.0 15	345.0 13	294.0 13	241.0 13	177.0 12
1962	1670.0 21	1010.0 22	755.0 20	721.0 15	560.0 14	314.0 18	262.0 18	207.0 18	181.0 17	118.0 16
1963	2110.0 17	1910.0 16	1240.0 16	692.0 16	389.0 19	203.0 24	154.0 23	139.0 24	117.0 23	69.1 23
1964	1360.0 24	779.0 26	486.0 27	263.0 27	155.0 27	85.0 27	66.5 27	61.4 27	52.3 27	26.4 27
1965	4090.0 9	3520.0 7	2560.0 7	1730.0 8	1470.0 7	1010.0 8	738.0 8	590.0 8	428.0 8	232.0 9
1966	1540.0 22	863.0 24	617.0 25	375.0 25	234.0 25	160.0 25	149.0 25	141.0 23	137.0 21	89.4 21
1967	1930.0 19	1370.0 18	885.0 17	632.0 18	409.0 17	375.0 14	293.0 15	238.0 15	180.0 18	98.5 20
1968	3540.0 11	2460.0 10	1680.0 12	1250.0 10	863.0 9	582.0 12	419.0 12	352.0 11	252.0 12	146.0 15
1969	3610.0 10	3430.0 8	2400.0 8	1390.0 9	829.0 10	623.0 10	511.0 10	458.0 10	350.0 10	279.0 7
1970	2050.0 18	1140.0 19	718.0 21	453.0 23	331.0 23	219.0 22	175.0 22	157.0 22	128.0 22	77.4 22
1971	941.0 26	791.0 25	548.0 26	361.0 26	194.0 26	104.0 26	84.4 26	89.7 26	66.2 26	33.5 26
1972	3110.0 14	2810.0 12	1910.0 10	1100.0 13	662.0 12	402.0 13	307.0 14	254.0 14	239.0 14	179.0 11
1973	2940.0 15	2830.0 11	2270.0 9	1820.0 7	1430.0 8	1040.0 7	766.0 7	620.0 7	446.0 7	229.0 10
1974	5890.0 7	3220.0 9	1630.0 13	850.0 14	441.0 16	245.0 21	202.0 21	171.0 20	169.0 19	112.0 17

## ARKANSAS RIVER BASIN

07239000 NORTH CANADIAN RIVER AT CANTON, OKLA.

LOCATION.--Lat 36°04'45", long 98°35'25", in NE 1/4 SW 1/4 sec.33, T.19 N., R.13 W., Blaine County, on right bank 2,700 ft (823.0 m) downstream from Canton Dam, 1.5 mi (2.4 km) northwest of Canton, 4.8 mi (7.7 km) upstream from Minnehaha Creek, and at mile 393.8 (633.6 km).

DRAINAGE AREA.--12,484 mi<sup>2</sup> (22,334 km<sup>2</sup>), of which 4,883 mi<sup>2</sup> (12,647 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD.--October 1937 to September 1974. Statistical summaries for this station are divided into unregulated and regulated periods.

AVERAGE DISCHARGE.--11 years (1938-48), 256 ft<sup>3</sup>/s (7.25 m<sup>3</sup>/s); 26 years (1949-74), 181 ft<sup>3</sup>/s (5.13 m<sup>3</sup>/s).

REMARKS.--Flow partly regulated by Fort Supply Lake in Oklahoma for period May 1942 to April 1948 and completely regulated thereafter by Canton Lake in Oklahoma.

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

NORTH CANADIAN RIVER AT CANTON, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34		
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS		
1938	8						1			2	3	5	2	18	1	32	76	46	25	26	18	6	19	18	19	16	8	5	6	3	1	1				110705.0	
1939	54						32			31	10	10	4	6	3	12	32	40	21	22	16	16	17	9	8	4	4	1	5	5			3			85353.0	
1940	266						5			4		4	4	3	1	5	7	6	9	6	9	6	9	3	5	4	5	2	1	2						33717.0	
1941	94						3				2	2	1	1	14	9	3	21	28	36	21	19	16	18	27	16	8	7	6	7	3	3				159339.0	
1942	19						6			3	4	3	4	4	7	3	5	5	6	6	19	78	75	33	25	26	11	7	3	4	5	1	2	1			211526.0
1943	72						2			1	2	4	6	7	6	6	18	14	50	46	31	45	26	12	7	4	3	1	2							50072.0	
1944	103						15			17	11	11	9	7	4	10	11	14	28	25	35	18	14	5	7	9	4	5	2	2							55321.0
1945	44		1		1		1			4		2	2	2	9	14	26	27	25	42	64	51	25	8	7	4	3	1	2								54017.3
1946	75				2	1	4		1	5	5	3	4	35	25	22	18	41	59	23	22	7	7		5	1											19423.1
1947	65										1	1		1	1	1	2	6	9	32	36	72	31	26	29	23	10	7	6	4	1			1			217250.0
1948	149	1	1	1	1	1	1	2	8	17	8	5	13	4	5	19	9	10	30	19	17	13	7	14	4	1	1	1	6								33260.7

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	949	4018	100.0	9	2.80	45	2895	72.1	18	77.0	260	1735	43.2	27	2100	34	89	2.2					
1	0.10	1	3069	76.4	10	4.00	50	2850	70.9	19	110.0	284	1475	36.7	28	3100	29	55	1.3					
2	0.20	2	3068	76.4	11	5.80	50	2800	69.7	20	160.0	295	1191	29.6	29	4500	13	26	.6					
3	0.30	1	3066	76.3	12	8.40	87	2750	68.4	21	230.0	287	896	22.3	30	6400	9	13	.3					
4	0.40	4	3065	76.3	13	12.00	76	2663	66.3	22	340.0	151	609	15.2	31	9300	2	4	.0					
5	0.60	2	3061	76.2	14	17.00	133	2587	64.4	23	490.0	140	458	11.4	32	13000	1	2	.0					
6	0.90	71	3059	76.1	15	25.00	206	2454	61.1	24	700.0	114	318	7.9	33	20000	1	1	.0					
7	1.30	9	2988	74.4	16	37.00	226	2248	55.9	25	1000.0	70	204	5.1	34									
8	1.90	84	2979	74.1	17	53.00	287	2022	50.3	26	1500.0	45	134	3.3										

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

NORTH CANADIAN RIVER AT CANTON, OKLAHOMA

YEAR	1		3		7		14		30		60		90		120		183		ANNUAL	
1939	0.00	1	0.00	1	0.00	1	0.00	1	1.47	8	1.90	5	11.10	5	16.80	6	26.10	5	292.00	6
1940	0.00	2	0.00	2	0.00	2	0.00	2	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	216.00	5
1941	0.00	3	0.00	3	0.00	3	0.00	3	0.00	2	0.30	4	0.20	3	1.46	3	11.10	4	105.00	2
1942	21.00	10	22.70	10	40.60	10	78.20	10	149.00	10	234.00	10	242.00	10	279.00	10	765.00	10	804.00	10
1943	0.00	4	0.00	4	0.00	4	1.00	9	6.07	9	19.00	9	81.90	9	130.00	9	199.00	9	305.00	7
1944	0.00	5	0.00	5	0.00	5	0.00	4	0.00	3	0.12	3	0.38	4	1.71	4	4.25	3	52.40	1
1945	0.00	6	0.00	6	0.00	6	0.00	5	0.23	7	11.10	8	65.40	8	83.00	8	92.20	8	199.00	4
1946	0.00	7	0.00	7	0.00	7	0.00	6	0.00	4	4.17	6	26.10	7	33.20	7	76.50	7	119.00	3
1947	0.00	8	0.00	8	0.00	8	0.00	7	0.00	5	7.14	7	15.90	6	15.90	5	28.40	6	322.00	9
1948	0.00	9	0.00	9	0.00	9	0.00	8	0.00	6	0.00	2	0.00	2	0.00	2	0.00	2	315.00	8

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

NORTH CANADIAN RIVER AT CANTON, OKLAHOMA

YEAR	1		3		7		15		30		60		90		120		183		ANNUAL	
1938	8390.0	4	4590.0	5	3450.0	4	2140.0	5	1540.0	4	1180.0	4	893.0	4	689.0	4	549.0	4	303.0	4
1939	7080.0	5	4830.0	4	3220.0	5	2790.0	3	1520.0	5	811.0	5	749.0	5	662.0	5	450.0	5	234.0	5
1940	4150.0	6	2830.0	6	1640.0	8	1010.0	8	711.0	7	414.0	7	365.0	7	280.0	7	184.0	9	92.1	9
1941	8890.0	3	6850.0	3	4730.0	3	2740.0	4	2550.0	2	1720.0	2	1390.0	1	1110.0	1	845.0	1	437.0	3
1942	19500.0	2	14000.0	1	9010.0	1	5010.0	1	2410.0	1	1740.0	1	1290.0	2	1030.0	2	760.0	2	580.0	2
1943	2330.0	8	1550.0	10	1010.0	9	712.0	9	581.0	9	377.0	8	311.0	8	276.0	8	210.0	7	137.0	8
1944	3900.0	7	2460.0	7	1990.0	6	1490.0	6	1010.0	6	614.0	6	440.0	6	393.0	6	290.0	6	151.0	6
1945	2300.0	9	1650.0	9	965.0	10	449.0	10	300.0	10	229.0	10	234.0	10	214.0	9	188.0	8	148.0	7
1946	700.0	11	672.0	11	613.0	11	385.0	11	213.0	11	114.0	11	81.5	11	74.7	11	77.7	11	53.2	11
1947	20800.0	1	11400.0	2	6810.0	2	3880.0	2	2180.0	3	1360.0	3	1090.0	3	933.0	3	690.0	3	595.0	1
1948	1970.0	10	1970.0	8	1760.0	7	1080.0	7	612.0	8	330.0	9	236.0	9	181.0	10	167.0	10	90.9	10







LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## NORTH CANADIAN RIVER AT CANTON, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1950	2.40 16	4.33 21	4.84 21	7.49 23	28.80 25	83.50 24	93.90 25	99.70 24	153.00 24	558.00 23
1951	3.00 19	3.00 16	3.33 16	3.77 16	6.62 20	86.00 25	91.50 24	138.00 25	357.00 25	728.00 25
1952	6.60 24	11.30 24	11.70 24	12.50 24	12.70 23	13.20 20	13.80 16	16.30 15	31.80 12	663.00 24
1953	12.00 25	13.70 25	14.00 25	14.30 25	14.60 24	14.70 21	15.20 17	15.90 14	19.30 11	61.50 7
1954	0.20 2	0.40 3	0.43 3	0.82 3	1.15 3	1.42 2	1.43 2	1.80 2	1.85 2	59.10 5
1955	0.00 1	0.00 1	0.00 1	0.06 1	0.11 1	0.18 1	0.23 1	0.25 1	0.30 1	48.20 3
1956	0.30 3	0.30 2	0.31 2	0.36 2	0.57 2	5.25 15	5.55 14	5.69 10	5.63 8	149.00 16
1957	1.60 11	1.90 10	1.94 9	2.04 8	2.10 6	2.25 5	2.34 5	2.40 4	2.59 4	77.40 10
1958	0.90 4	1.63 7	2.26 10	2.31 10	2.76 13	59.70 23	63.00 23	66.40 21	88.60 20	467.00 22
1959	3.00 20	3.33 18	3.64 17	3.81 17	4.26 16	4.91 14	5.18 13	5.83 11	38.40 14	172.00 19
1960	5.40 23	5.40 22	5.40 22	5.40 21	5.64 18	10.40 18	15.70 18	35.20 17	88.00 19	159.00 17
1961	1.40 8	5.60 23	5.69 23	5.74 22	8.72 22	31.20 22	38.90 21	65.20 20	99.50 21	133.00 15
1962	2.60 17	3.03 17	3.69 18	4.89 20	7.03 21	10.50 19	31.40 20	36.20 19	46.40 16	118.00 13
1963	4.00 22	4.10 20	4.66 20	4.73 19	5.77 19	6.16 17	6.60 15	6.53 12	12.80 10	77.40 11
1964	2.20 14	2.27 12	2.34 12	2.50 13	2.59 9	2.75 8	2.81 8	2.82 5	73.90 18	85.40 12
1965	1.30 7	1.40 6	1.47 6	1.61 6	1.69 5	1.76 3	1.97 3	2.18 3	2.22 3	29.00 1
1966	2.10 13	2.27 13	2.60 14	2.64 14	2.94 14	3.09 11	60.70 22	96.30 23	111.00 22	128.00 14
1967	2.30 15	2.33 14	2.41 13	2.49 11	2.63 12	2.78 9	2.78 7	2.92 6	3.05 5	54.80 4
1968	2.80 18	2.80 15	2.93 15	3.01 15	3.19 15	3.21 12	3.78 11	6.53 13	44.90 15	61.20 6
1969	3.50 21	3.57 19	3.91 19	4.28 18	5.11 17	6.04 16	22.40 19	72.90 22	117.00 23	177.00 20
1970	1.20 6	1.37 5	1.41 5	1.57 5	2.62 10	2.74 6	2.75 6	35.90 18	63.60 17	190.00 21
1971	1.60 9	1.73 8	1.86 7	1.97 7	2.58 8	2.75 7	2.91 9	2.92 7	6.86 9	47.10 2
1972	1.00 5	1.03 4	1.21 4	1.22 4	1.40 4	1.90 4	2.06 4	34.20 16	33.30 13	67.70 8
1973	1.60 10	1.73 9	1.89 8	2.09 9	2.47 7	2.93 10	3.41 10	3.58 8	3.86 6	70.20 9
1974	1.70 12	2.03 11	2.30 11	2.50 12	2.63 11	3.67 13	4.21 12	4.52 9	4.47 7	165.00 18

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## NORTH CANADIAN RIVER AT CANTON, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1949	3940.0 1	3940.0 1	3920.0 1	3840.0 1	3440.0 1	2240.0 3	1700.0 3	1410.0 3	984.0 3	513.0 3
1950	3230.0 3	3230.0 3	3200.0 3	3170.0 3	2980.0 3	2840.0 2	2170.0 2	1630.0 2	1110.0 2	640.0 2
1951	3400.0 2	3400.0 2	3380.0 2	3360.0 2	3280.0 2	3100.0 1	2370.0 1	1820.0 1	1280.0 1	782.0 1
1952	1040.0 22	1020.0 24	858.0 23	645.0 20	409.0 17	326.0 12	306.0 10	259.0 9	187.0 12	105.0 13
1953	1480.0 7	1460.0 7	1280.0 8	621.0 21	311.0 24	213.0 23	145.0 25	112.0 25	85.7 24	52.0 23
1954	1430.0 8	1280.0 11	911.0 21	652.0 19	375.0 20	274.0 17	248.0 13	194.0 14	128.0 19	64.7 21
1955	2360.0 4	2170.0 4	1950.0 5	1640.0 5	1020.0 6	839.0 5	589.0 6	443.0 7	291.0 8	146.0 10
1956	1580.0 6	1520.0 6	1490.0 6	897.0 12	451.0 15	228.0 20	154.0 23	117.0 23	78.4 25	41.4 25
1957	2060.0 5	2060.0 5	2010.0 4	1900.0 4	1860.0 4	1680.0 4	1570.0 4	1210.0 4	881.0 4	457.0 4
1958	1410.0 10	1410.0 8	1180.0 9	836.0 15	648.0 9	566.0 8	499.0 7	389.0 8	310.0 6	200.0 6
1959	1430.0 9	1310.0 10	786.0 25	456.0 26	349.0 22	249.0 19	201.0 19	185.0 16	133.0 18	85.2 16
1960	1100.0 16	1030.0 21	825.0 24	609.0 22	409.0 18	357.0 10	286.0 11	247.0 10	232.0 9	155.0 7
1961	810.0 26	727.0 26	664.0 26	468.0 24	337.0 23	281.0 14	276.0 12	238.0 11	198.0 11	148.0 9
1962	1240.0 12	1160.0 13	984.0 18	730.0 16	512.0 13	275.0 16	216.0 17	186.0 15	166.0 13	103.0 14
1963	1040.0 23	1020.0 25	1010.0 17	845.0 14	425.0 16	227.0 21	175.0 21	153.0 20	109.0 21	57.5 22
1964	1090.0 17	1090.0 16	1070.0 12	1040.0 8	550.0 11	277.0 15	186.0 20	140.0 21	92.9 22	74.2 19
1965	1080.0 20	1080.0 17	983.0 19	891.0 13	485.0 14	284.0 13	220.0 16	212.0 13	140.0 15	71.3 20
1966	1030.0 24	1030.0 22	1020.0 16	985.0 11	514.0 12	271.0 18	202.0 18	161.0 19	152.0 14	111.0 12
1967	1240.0 13	1200.0 12	1150.0 10	685.0 18	393.0 19	222.0 22	153.0 24	116.0 24	77.6 26	40.4 26
1968	1090.0 18	1080.0 18	1070.0 13	1020.0 9	571.0 10	328.0 11	221.0 15	175.0 18	138.0 16	80.7 17
1969	1360.0 11	1360.0 9	1340.0 7	1050.0 6	736.0 8	634.0 7	498.0 8	463.0 5	355.0 5	271.0 5
1970	1020.0 25	1020.0 23	865.0 22	598.0 23	301.0 25	173.0 25	172.0 22	131.0 22	120.0 20	80.7 18
1971	1070.0 21	1050.0 20	923.0 20	465.0 25	233.0 26	134.0 26	120.0 26	90.2 26	92.7 23	49.9 24
1972	1080.0 19	1070.0 19	1060.0 15	728.0 17	366.0 21	185.0 24	227.0 14	179.0 17	136.0 17	89.4 15
1973	1120.0 15	1120.0 15	1070.0 14	1050.0 7	1030.0 5	794.0 6	595.0 5	449.0 6	296.0 7	150.0 8
1974	1210.0 14	1140.0 14	1090.0 11	1020.0 10	831.0 7	461.0 9	311.0 9	237.0 12	232.0 10	133.0 11

## 07239500 NORTH CANADIAN RIVER NEAR EL RENO, OKLA.

LOCATION.--Lat 35°33'44", long 97°57'32", on east line of sec.32, T.13 N., R.7 W., Canadian County, near left bank on downstream side of pier of bridge on U.S. Highway 81, 2.0 mi (3.2 km) north of courthouse in El Reno, 2.2 mi (3.5 km) downstream from Target Creek, and at mile 307.4 (494.6 km).

DRAINAGE AREA.--13,042 mi<sup>2</sup> (33,779 km<sup>2</sup>), of which 4,899 mi<sup>2</sup> (12,688 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD.--October 1902 to April 1908, October 1937 to September 1974. Statistical summaries for this station are divided into unregulated and regulated periods.

AVERAGE DISCHARGE.--16 years (1903-7, 1937-48), 264 ft<sup>3</sup>/s (7.48 m<sup>3</sup>/s); 26 years (1949-74), 203 ft<sup>3</sup>/s (5.75 m<sup>3</sup>/s).

REMARKS.--Some regulation by Fort Supply Lake in Oklahoma for period May 1942 to April 1948 and by Canton Lake in Oklahoma thereafter.

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

## NORTH CANADIAN RIVER NEAR EL RENO OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS	
1903	1						7					16		8																						89866.0
1904	4						46					14		11																						99943.0
1905															5	8	3	11	18	28	109	30	30	28	48	40	6	1								78981.0
1906													23		13	3		7	3	11	44	108	45	40	27	15	15	8	2	1						86659.0
1907																	8		5	8	17	56	114	69	61	12	8	3	3	1						144072.0
1908		2				2		3	2			1		1	1	2	51	40	63	30	26	27	15	10	16	18	19	9	5	4	6	3		1		113344.8
1909	39	1	2	1		2	1	19	12	13	11	7	9	5	15	12	46	33	23	19	13	20	17	10	10	6	4	1	3	3	5	3				68877.3
1940	260	2	3		3	1	1	4	2	3	1	4	4	3	1	4	3	2	6	8	7	6	10	7	7	5	4	2	2	1						24414.2
1941	124		2						1							1	6	15	34	24	11	21	20	14	17	17	12	11	13	7	6	4	3			143488.1
1942														1	2	2	4	4	20	16	12	9	15	53	78	44	32	27	12	13	3	5	7	3	3	230377.5
1943	56					2					1	4	6	1	1	2	8	11	10	27	38	38	45	58	18	13	14	5	2	3						61162.2
1944	42	2	3	1	3	7	5	4	13	8	20	14	14	9	15	12	12	20	12	20	22	34	16	14	14	9	8	5	4	2	1		1			61054.2
1945	18	1		1		1	5	2		1	3	2	4	6	7	10	18	17	40	22	46	59	29	22	26	9	6	3	4	2	1					66001.6
1946	54	3	1		3	2		1	2	3	5	5	7	11	20	45	25	17	45	57	26	12	6	2	5	6	1			1						22507.3
1947	44		1			2	2	1		1	4	1	1	4	1	4	2	2	1	5	9	35	25	66	33	35	32	16	9	14	9	5	1			204204.9
1948	116	4	20	1	1	14	4	2	6	3	13	4	4	2	6	6	21	19	10	26	18	14	13	16	7	6	2	1	5		1		1	1		44425.0

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	760	5844	100.0	9	2.10	33	4846	82.9	18	44.0	316	3677	62.9	27	940	95	304	5.2					
1	0.10	13	5084	87.0	10	3.00	92	4813	82.4	19	62.0	334	3361	57.5	28	1300	78	209	3.5					
2	0.20	32	5071	86.8	11	4.10	43	4721	80.8	20	88.0	427	3027	51.8	29	1900	45	131	2.2					
3	0.30	4	5039	86.2	12	5.80	89	4678	80.0	21	120.0	537	2600	44.5	30	2600	49	86	1.4					
4	0.40	12	5035	86.2	13	8.20	44	4589	78.5	22	170.0	412	2063	35.3	31	3700	24	37	.6					
5	0.50	32	5023	86.0	14	11.00	115	4545	77.8	23	240.0	485	1651	28.3	32	5100	8	13	.2					
6	0.60	74	4991	85.4	15	16.00	196	4430	75.8	24	340.0	378	1166	20.0	33	7200	5	5	.0					
7	1.10	35	4917	84.1	16	23.00	281	4234	72.5	25	480.0	304	788	13.5	34									
8	1.50	36	4882	83.5	17	32.00	276	3953	67.6	26	670.0	180	484	8.3										

## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## NORTH CANADIAN RIVER NEAR EL RENO OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1904	0.00 1	0.00 1	0.43 9	1.00 9	1.27 7	2.00 5	2.17 5	3.83 4	11.80 5	179.00 6
1905	20.00 12	20.00 12	20.00 12	21.90 11	63.20 12	96.00 12	109.00 11	108.00 11	125.00 11	360.00 12
1906	6.00 10	6.00 10	6.86 10	7.43 10	8.43 10	16.80 9	28.90 8	53.70 9	78.10 8	168.00 4
1907	90.00 14	90.00 14	96.40 14	109.00 14	141.00 14	176.00 13	188.00 13	296.00 13	371.00 13	407.00 13
1909	0.00 2	0.00 2	0.00 1	0.35 8	1.71 9	3.22 6	8.34 6	12.20 6	20.90 6	296.00 9
1940	0.00 3	0.00 3	0.00 2	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	176.00 5
1941	0.00 4	0.00 4	0.00 3	0.00 2	0.00 2	0.00 2	0.32 3	0.24 2	3.60 3	73.80 1
1942	38.00 13	42.30 13	54.90 13	67.60 13	136.00 13	189.00 14	266.00 14	300.00 14	753.00 14	762.00 14
1943	8.00 11	8.83 11	13.60 11	29.50 12	45.20 11	51.80 11	119.00 12	128.00 12	206.00 12	358.00 11
1944	0.00 5	0.00 5	0.00 4	0.00 3	0.00 3	0.00 3	0.45 4	6.09 5	5.89 4	89.20 2
1945	0.00 6	0.00 6	0.00 5	0.00 4	1.61 8	19.70 10	59.30 10	71.60 10	82.80 9	206.00 7
1946	0.00 7	0.00 7	0.00 6	0.00 5	0.47 6	7.73 8	31.70 9	38.00 8	83.60 10	165.00 3
1947	0.00 8	0.00 8	0.00 7	0.00 6	0.00 4	5.10 7	14.50 7	32.70 7	35.80 7	263.00 8
1948	0.00 9	0.00 9	0.00 8	0.00 7	0.00 5	0.00 4	0.00 2	0.46 3	1.15 2	340.00 10

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## NORTH CANADIAN RIVER NEAR EL RENO OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1903	3510.0 9	2650.0 8	2370.0 7	1660.0 7	1340.0 6	861.0 6	670.0 6	598.0 6	445.0 7	246.0 7
1904	4000.0 8	3740.0 6	3540.0 4	2360.0 5	1480.0 5	1000.0 5	881.0 5	756.0 4	525.0 5	273.0 6
1905	1250.0 16	690.0 16	669.0 15	533.0 15	511.0 15	475.0 15	447.0 11	427.0 10	326.0 10	216.0 9
1906	2530.0 14	1390.0 14	1070.0 14	925.0 10	841.0 9	628.0 9	549.0 9	450.0 9	375.0 8	237.0 8
1907	3480.0 10	2210.0 10	1380.0 10	861.0 11	765.0 10	601.0 10	575.0 8	514.0 8	453.0 8	395.0 3
1908	7200.0 3	5050.0 3	4180.0 3	2630.0 4	1830.0 4	1330.0 4	940.0 4	754.0 4	567.0 4	311.0 5
1909	4040.0 7	3300.0 7	2640.0 6	2220.0 6	1230.0 6	652.0 8	592.0 7	533.0 7	363.0 9	189.0 10
1940	2750.0 12	2040.0 12	1200.0 12	754.0 13	526.0 13	312.0 15	259.0 15	197.0 15	133.0 15	66.7 15
1941	5980.0 4	5630.0 2	4190.0 2	2680.0 3	2430.0 2	1660.0 2	1300.0 1	1030.0 1	770.0 1	393.0 4
1942	14000.0 1	10700.0 1	7390.0 1	4520.0 1	2720.0 1	1670.0 1	1250.0 2	1000.0 3	768.0 2	631.0 1
1943	2680.0 13	2100.0 11	1260.0 11	822.0 12	523.0 14	364.0 14	294.0 14	258.0 14	205.0 14	168.0 12
1944	5860.0 5	2440.0 9	1590.0 9	1230.0 8	1050.0 8	667.0 7	525.0 10	425.0 11	319.0 11	167.0 13
1945	3070.0 11	1650.0 13	1170.0 13	718.0 14	540.0 12	400.0 13	363.0 13	343.0 12	274.0 12	186.0 11
1946	1390.0 15	772.0 15	522.0 16	407.0 16	239.0 16	130.0 16	92.3 16	84.3 16	84.3 16	61.7 16
1947	5320.0 6	4330.0 5	3480.0 5	3040.0 2	2040.0 3	1510.0 3	1200.0 3	1010.0 2	739.0 3	559.0 2
1948	7850.0 2	4490.0 4	2110.0 8	1050.0 9	564.0 11	467.0 12	368.0 12	278.0 13	229.0 13	121.0 14

NORTH CANADIAN RIVER NEAR EL RENO, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34		
YEAR																																					CFS_DAYS
1949	2					3	1	1	5	1	5	8	3	1	11	10	16	7	20	31	51	27	24	21	9	31	2	22	2	8	13	17	15			197635.9	
1950	2													5	6	8	18	8	14	16	26	43	61	27	25	26	7	5	6	12	50					219806.5	
1951																		4	16	9	16	54	44	26	22	14	6	5	29	58	2					294585.0	
1952	82				1	1			1	1	3	2	4	4	1	35	53	35	11	11	18	46	19	5	15	6	12									35667.2	
1953	119				3	7		3	5	6	5	8	21	45	34	31	18	11	5	4	3	4	1	3	2											11613.3	
1954	92				5	6	13	56	50	7	6	2	3	3	4	5	6	19	13	19	16	7	6	4	5	7	8	3								24692.2	
1955	248				1			4		2	1	1	3	4	3	2	2	6	5	4	6	10	16	9	4	4	4	12	13	1						58940.7	
1956	84				1	1			4	2	4	3	8	24	26	52	52	40	20	12	8	5	4	2	1		1	4	5	1	1	1				24893.6	
1957	145												2			1	5	7	22	11	8	19	11	7	8	13	13	32	61						181282.6		
1958														2	4	11	17	12	48	82	51	42	37	16	15	13	13	1	1							85617.0	
1959	28					1	1	1	1	2	3		1	3	75	36	35	27	19	40	22	32	15	9	6	4	4	1								40398.7	
1960											3	3	3	2	8	17	13	8	37	23	55	31	54	31	31	14	15	10	1	1	2					94204.7	
1961													1			2	6	9	12	14	31	82	72	52	24	31	16	6	4	1	1	1				80669.1	
1962											3	4	4	4	9	6	10	13	20	29	43	71	58	42	12	15	9	9	3	1						5553.2	
1963	39				1	1	4	2			4	6	8	13	13	5	23	47	69	26	15	43	25	3	3	3	1	11								24922.9	
1964	78				4	5	2	3	3	4	1	1	4	6	32	80	52	23	17	10	7	3	3	2	3	2	20		1							28684.3	
1965	37				1				2	4	11	8	10	17	42	94	31	17	16	11	16	5	11	7	5	7	8	2	2				1			38047.3	
1966	3	1				1	1	1			3	13	14	16	19	12	8	17	39	50	54	47	40	7	3	6	10									39616.8	
1967	13				1		2	6	23	123	45	11	14	17	13	14	13	10	5	13	15	7	6	3	3	7	1									19232.3	
1968											2	6	20	43	57	44	52	21	41	31	14	4	10	4	17											40019.4	
1969											1	20	16	21	11	10	28	43	51	51	42	27	38				4	2								112123.9	
1970	24		1				10	6	6	4	8	12	31	62	40	45	34	23	14	2	6	5	23	6	3											26201.4	
1971	36	1				2	2	6	7	8	41	81	32	30	17	14	18	14	10	8	6	5	6	5	2	11	3									15912.1	
1972	29			1		3	2	3	5	2	9	17	22	28	40	56	35	25	19	14	10	9	3	2	7	10	14	1								29963.3	
1973											1	3	16	22	31	32	29	50	29	31	13	11	12	9	12	6	46	6	5	1						85327.6	
1974											1	7	3	7	8	14	11	65	59	31	15	20	21	36	15	9	10	31	1	1						60158.7	
CLASS	CFS	TOTAL	ACCU	PERCT		CLASS	CFS	TOTAL	ACCU	PERCT		CLASS	CFS	TOTAL	ACCU	PERCT		CLASS	CFS	TOTAL	ACCU	PERCT		CLASS	CFS	TOTAL	ACCU	PERCT		CLASS	CFS	TOTAL	ACCU	PERCT			
0	0.00	1061	9496	100.0	9	0.70	96	8270	87.1	18		22.0	639	5349	56.3	27	750	332	752	7.9																	
1	0.02	2	8435	88.8	10	1.00	81	8174	86.1	19		33.0	537	4710	49.6	28	1100	122	420	4.4																	
2	0.04	1	8433	88.8	11	1.40	243	8093	85.2	20		49.0	527	4173	43.9	29	1600	145	298	3.1																	
3	0.06	1	8432	88.8	12	2.10	217	7850	82.7	21		72.0	775	3646	38.4	30	2400	131	153	1.6																	
4	0.09	0	8431	88.8	13	3.20	210	7633	80.4	22		110.0	684	2871	30.2	31	3600	21	22	.2																	
5	0.10	20	8431	88.8	14	4.70	283	7423	78.2	23		160.0	564	2187	23.0	32	5300		1	.0																	
6	0.20	27	8411	88.6	15	6.90	422	7140	75.2	24		230.0	325	1623	17.1	33	7900	1	1	.0																	
7	0.30	22	8384	88.3	16	10.00	732	6718	70.7	25		340.0	336	1298	13.7	34																					
8	0.40	92	8362	88.1	17	15.00	637	5986	63.0	26		510.0	210	962	10.1																						

## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## NORTH CANADIAN RIVER NEAR EL RENO, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1950	7.20 23	7.80 21	9.51 21	11.70 22	35.40 23	78.80 24	89.90 23	93.70 22	139.00 21	579.00 23
1951	0.00 1	1.13 16	4.70 18	8.38 16	18.80 22	117.00 25	107.00 24	156.00 25	391.00 25	714.00 25
1952	6.00 21	10.00 24	11.10 23	12.80 23	15.60 21	17.80 16	17.80 14	18.90 11	35.90 9	668.00 24
1953	0.00 2	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.03 3	0.09 2	1.79 2	50.50 5
1954	0.00 3	0.00 2	0.00 2	0.00 2	0.00 2	0.59 5	0.75 5	1.86 4	5.27 5	42.90 2
1955	0.00 4	0.00 3	0.00 3	0.00 3	0.00 3	0.00 2	0.00 1	0.00 1	0.00 1	53.30 6
1956	0.00 5	0.00 4	0.00 4	0.00 4	0.00 4	9.07 10	11.70 9	11.80 9	74.00 16	199.00 16
1957	0.00 6	0.00 5	0.00 5	0.00 5	0.00 5	0.00 3	0.00 2	0.19 3	4.33 4	62.90 7
1958	14.00 25	15.70 25	20.60 25	27.10 25	71.30 25	72.10 23	74.40 21	77.20 19	102.00 18	515.00 22
1959	7.50 24	8.67 22	10.60 22	11.40 21	12.50 18	13.10 14	13.40 12	16.10 10	47.40 11	208.00 18
1960	0.00 7	0.00 6	0.00 6	0.00 6	0.06 9	18.40 17	27.20 17	70.70 18	172.00 24	262.00 21
1961	2.00 18	2.00 17	3.00 16	6.39 17	13.90 20	34.50 20	58.10 20	79.50 20	155.00 23	186.00 15
1962	3.90 19	9.33 23	11.40 24	16.60 24	45.70 24	59.10 22	108.00 25	111.00 24	130.00 20	183.00 14
1963	1.00 16	1.07 15	1.43 15	2.61 15	7.02 14	10.70 12	22.30 15	27.30 12	28.30 8	111.00 12
1964	0.00 8	0.00 7	0.00 7	0.00 7	0.00 6	4.62 8	3.14 7	8.63 8	77.30 17	85.90 10
1965	0.00 9	0.00 8	0.00 8	0.00 8	0.00 7	0.14 4	0.42 4	2.47 6	12.90 7	44.20 3
1966	0.00 10	0.37 14	1.23 14	1.56 14	12.40 17	29.90 19	82.80 22	99.60 23	124.00 19	156.00 13
1967	0.00 11	0.00 9	0.22 13	1.43 13	1.57 12	1.71 6	1.74 6	2.42 5	2.72 3	49.20 4
1968	0.00 12	0.00 10	0.00 9	0.01 12	4.52 13	13.90 15	17.20 13	28.90 14	61.70 15	82.00 9
1969	4.60 20	4.90 19	5.91 19	9.30 20	12.90 19	36.80 21	39.00 19	88.10 21	149.00 22	206.00 17
1970	7.00 22	7.00 20	7.94 20	8.90 19	9.72 16	10.20 11	12.10 10	35.70 16	58.40 13	214.00 19
1971	0.00 13	0.00 11	0.00 10	0.00 9	0.37 11	2.92 7	4.54 8	4.23 7	6.06 6	40.60 1
1972	0.00 14	0.00 12	0.00 11	0.00 10	0.11 10	11.60 13	22.60 16	43.30 17	47.70 12	64.30 8
1973	0.00 15	0.00 13	0.00 12	0.00 11	0.00 8	4.97 9	12.80 11	31.00 15	61.10 14	107.00 11
1974	1.70 17	2.27 18	3.01 17	3.70 16	7.34 15	20.80 18	30.60 18	28.60 13	45.50 10	220.00 20

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## NORTH CANADIAN RIVER NEAR EL RENO, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1949	4490.0 4	3790.0 2	3750.0 1	3650.0 1	3320.0 1	2420.0 3	1800.0 3	1480.0 3	1040.0 3	541.0 3
1950	3510.0 7	3110.0 5	3010.0 3	2940.0 3	2820.0 3	2620.0 2	2020.0 2	1530.0 2	1050.0 2	602.0 2
1951	3730.0 6	3440.0 4	3350.0 2	3170.0 2	3060.0 2	2930.0 1	2370.0 1	1830.0 1	1300.0 1	807.0 1
1952	914.0 23	820.0 25	752.0 24	596.0 20	389.0 20	322.0 15	306.0 11	258.0 13	186.0 14	97.5 17
1953	1110.0 20	1100.0 15	845.0 21	415.0 25	210.0 25	142.0 25	98.3 26	73.8 26	57.2 26	31.8 26
1954	1500.0 17	1160.0 14	930.0 14	750.0 17	464.0 16	305.0 16	254.0 16	199.0 17	131.0 18	67.6 23
1955	2660.0 10	2110.0 9	1710.0 7	1650.0 6	1130.0 5	920.0 5	651.0 6	491.0 7	322.0 9	161.0 11
1956	4050.0 5	3050.0 6	1540.0 9	758.0 16	397.0 19	208.0 21	143.0 22	110.0 23	76.2 25	68.0 22
1957	2080.0 14	1890.0 11	1850.0 5	1780.0 4	1750.0 4	1670.0 4	1550.0 4	1280.0 4	948.0 4	497.0 4
1958	2920.0 8	2030.0 10	1240.0 10	1090.0 7	784.0 9	646.0 8	587.0 8	466.0 8	372.0 7	235.0 7
1959	2220.0 12	997.0 18	871.0 19	541.0 23	510.0 14	333.0 13	263.0 15	232.0 15	174.0 16	111.0 13
1960	5040.0 2	4150.0 1	2350.0 4	1650.0 5	900.0 7	477.0 9	376.0 9	324.0 9	351.0 8	257.0 6
1961	4690.0 3	2200.0 7	1170.0 12	906.0 12	552.0 12	350.0 12	343.0 10	296.0 10	247.0 11	221.0 9
1962	2050.0 15	1450.0 13	1040.0 13	919.0 11	692.0 11	391.0 10	297.0 13	255.0 14	208.0 12	152.0 12
1963	915.0 22	890.0 22	869.0 20	695.0 19	374.0 21	219.0 19	164.0 19	147.0 18	113.0 20	68.3 21
1964	2300.0 11	1060.0 16	904.0 16	838.0 15	459.0 17	238.0 18	162.0 20	127.0 22	87.6 23	78.4 19
1965	8530.0 1	3650.0 3	1780.0 6	966.0 10	529.0 13	277.0 17	199.0 17	269.0 11	191.0 13	104.0 16
1966	850.0 25	832.0 24	827.0 23	744.0 18	407.0 18	213.0 20	158.0 21	134.0 21	136.0 17	109.0 14
1967	1290.0 19	995.0 19	896.0 17	568.0 21	337.0 22	181.0 22	134.0 23	144.0 19	102.0 22	52.7 24
1968	1090.0 21	969.0 20	925.0 15	840.0 14	492.0 15	331.0 14	268.0 14	220.0 16	181.0 15	109.0 15
1969	2210.0 13	1770.0 12	1230.0 11	1020.0 9	813.0 8	718.0 7	596.0 7	555.0 6	418.0 6	307.0 5
1970	857.0 24	840.0 23	583.0 26	419.0 24	220.0 24	146.0 24	130.0 24	107.0 24	103.0 21	71.8 20
1971	781.0 26	767.0 26	626.0 25	324.0 26	167.0 26	102.0 26	101.0 25	87.8 25	80.9 24	43.6 25
1972	1480.0 18	912.0 21	841.0 22	553.0 22	283.0 23	152.0 23	178.0 18	142.0 20	116.0 19	81.9 18
1973	2860.0 9	2180.0 8	1550.0 8	1060.0 8	978.0 6	881.0 6	771.0 5	633.0 5	435.0 5	234.0 8
1974	1730.0 16	1060.0 17	888.0 18	867.0 13	745.0 10	383.0 11	303.0 12	261.0 12	260.0 10	165.0 10

## ARKANSAS RIVER BASIN

## 07241500 NORTH CANADIAN RIVER NEAR OKLAHOMA CITY, OKLA.

LOCATION.--Lat 35°29'40", long 97°25'40", on north line of sec.29, T.12 N., R.2 W., near right bank on downstream side of pier of bridge on U.S. Highway 62, 4.5 mi (7.2 km) east of State Capitol in Oklahoma City, 5.0 mi (8.0 km) upstream from Crutcho Creek, and at mile 261.2 (420 km).

DRAINAGE AREA.--13,354 mi<sup>2</sup> (34,587 km<sup>2</sup>).

PERIOD OF RECORD.--October 1938 to September 1953, October 1959 to June 1961.

AVERAGE DISCHARGE.--16 years (1939-53, 1960-63), 381 ft<sup>3</sup>/s (10.8 m<sup>3</sup>/s).

REMARKS.--Some regulation by Fort Supply Reservoir for the period May 1942 to April 1948 and then after by Canton Reservoir, and by Lake Overholser for the entire period.

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

## NORTH CANADIAN RIVER NEAR OKLAHOMA CITY, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	
YEAR	NUMBER OF DAYS IN CLASS																																			CFS_DAYS
1940	14	12	31	08	33	20	11	7	7	6	5	8	1	4	2	4	3	3	1	2	1															24119.0
1941	1	2	22	95	45	18	11	16	6	10	6	8	5	5	11	1	15	3	12	7	8	9	9	9	5	2	7	5	5	4	3					176716.0
1942																																				271771.0
1943																																				91690.0
1944																																				63007.0
1945																																				131041.0
1946																																				39177.0
1947																																				246029.0
1948																																				58514.0
1949																																				216527.0
1950																																				242515.0
1951																																				348002.0
1952																																				47784.0
1953																																				20457.0
1960																																				172868.0

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	5480	100.0	9	61.00	360	3051	55.7	18	390.0	141	1133	20.7	27	2400	81	265	4.8
1	12.00	1	5480	100.0	10	75.00	184	2691	49.1	19	470.0	183	992	18.1	28	3000	102	184	3.3
2	15.00	16	5479	100.0	11	92.00	163	2507	45.7	20	580.0	140	809	14.8	29	3600	36	82	1.4
3	18.00	148	5463	99.7	12	110.00	214	2344	42.8	21	710.0	83	669	12.2	30	4500	23	46	.8
4	22.00	293	5315	97.0	13	140.00	156	2130	38.9	22	870.0	108	586	10.7	31	5500	14	23	.4
5	27.00	425	5022	91.6	14	170.00	246	1974	36.0	23	1100.0	54	478	8.7	32	6700	3	9	.1
6	33.00	625	4597	83.9	15	210.00	215	1728	31.5	24	1300.0	50	424	7.7	33	8200	4	6	.1
7	41.00	528	3972	72.5	16	260.00	181	1513	27.6	25	1600.0	70	374	6.8	34	10000	2	2	.0
8	50.00	393	3444	62.8	17	310.00	199	1332	24.3	26	2000.0	39	304	5.5					

LUKEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## NORTH CANADIAN RIVER NEAR OKLAHOMA CITY, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL								
1940	15.00	2	17.00	2	18.00	2	19.00	1	20.90	1	21.40	1	22.00	1	24.40	1	200.00	5
1941	12.00	1	15.70	1	17.60	1	19.10	2	20.60	2	24.90	2	28.60	2	29.80	2	33.60	4
1942	22.00	4	23.30	4	23.90	4	30.40	6	125.00	15	190.00	15	300.00	15	338.00	15	844.00	15
1943	22.00	5	24.00	5	28.70	7	44.30	14	51.40	12	70.80	11	123.00	13	148.00	13	242.00	13
1944	20.00	3	21.70	3	22.50	3	23.50	3	25.50	3	27.10	3	29.40	3	30.00	3	30.20	2
1945	24.00	7	26.00	7	27.10	6	28.50	5	31.90	5	38.30	7	41.20	7	44.00	7	60.10	7
1946	34.00	13	34.30	12	36.90	12	39.40	10	42.60	9	50.90	10	60.80	10	75.50	9	152.00	11
1947	30.00	10	31.00	9	32.30	9	34.00	9	34.90	8	44.50	9	43.60	8	83.40	10	88.10	9
1948	30.00	11	31.70	10	33.00	10	33.70	8	34.30	7	36.30	6	38.10	6	38.70	6	39.90	5
1949	28.00	8	29.00	8	30.60	8	31.50	7	32.90	6	35.90	5	36.50	5	38.40	5	54.70	6
1950	30.00	9	32.00	11	34.10	11	40.10	11	70.20	14	97.60	13	103.00	11	100.00	11	147.00	10
1951	32.00	12	35.30	13	41.10	14	43.00	13	47.70	11	116.00	14	161.00	14	171.00	14	411.00	14
1952	35.00	14	37.50	14	38.90	13	40.60	12	43.40	10	43.90	8	45.60	9	51.20	8	60.70	8
1953	23.00	6	24.30	6	26.70	5	27.90	4	30.30	4	30.60	4	32.00	4	33.40	4	33.50	3
1961	37.00	15	42.30	15	46.90	15	52.60	15	57.50	13	73.20	12	123.00	12	124.00	12	205.00	12

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## NORTH CANADIAN RIVER NEAR OKLAHOMA CITY, OKLAHOMA

YEAR	1	5	7	15	30	60	90	120	183	ANNUAL
1940	3130.0 13	1470.0 12	747.0 13	400.0 14	393.0 13	224.0 13	182.0 13	145.0 13	107.0 14	65.9 14
1941	6080.0 5	5540.0 5	4470.0 5	3530.0 6	3000.0 4	2120.0 4	1650.0 4	1290.0 5	932.0 5	484.0 6
1942	14600.0 1	11100.0 1	7790.0 1	4900.0 1	3080.0 3	1920.0 6	1440.0 6	1150.0 6	907.0 6	745.0 2
1943	4770.0 9	4050.0 8	2790.0 9	1940.0 9	1170.0 9	701.0 9	491.0 10	382.0 10	311.0 10	251.0 9
1944	5010.0 8	3500.0 10	1850.0 11	1110.0 11	888.0 10	671.0 10	563.0 9	455.0 9	314.0 9	172.0 10
1945	7110.0 4	6060.0 4	5900.0 7	2230.0 8	1430.0 8	963.0 8	921.0 7	800.0 7	601.0 8	359.0 8
1946	2010.0 15	1280.0 14	702.0 14	615.0 12	363.0 14	208.0 14	156.0 14	143.0 14	125.0 13	107.0 13
1947	5830.0 7	5520.0 6	4740.0 4	3890.0 3	2670.0 6	2090.0 5	1610.0 5	1310.0 4	938.0 4	674.0 3
1948	5900.0 6	3730.0 9	2650.0 10	1340.0 10	728.0 11	450.0 11	379.0 11	304.0 11	272.0 11	160.0 11
1949	4750.0 10	4350.0 7	4010.0 6	3700.0 4	3590.0 2	2680.0 3	1970.0 3	1610.0 3	1120.0 3	593.0 5
1950	3380.0 12	3210.0 11	3170.0 8	3110.0 7	2940.0 5	2740.0 2	2140.0 2	1650.0 2	1170.0 2	664.0 4
1951	7180.0 3	6160.0 3	4760.0 3	4050.0 2	3720.0 1	3470.0 1	2820.0 1	2220.0 1	1560.0 1	953.0 1
1952	2380.0 14	1270.0 15	778.0 12	607.0 13	523.0 12	357.0 12	372.0 12	296.0 12	212.0 12	131.0 12
1953	3430.0 11	1300.0 13	610.0 15	357.0 15	206.0 15	139.0 15	109.0 15	91.6 15	78.8 15	56.0 15
1960	4270.0 2	8920.0 2	6430.0 2	3650.0 5	1950.0 7	1060.0 7	806.0 8	673.0 8	635.0 7	472.0 2



## ARKANSAS RIVER BASIN

229

07241550 NORTH CANADIAN RIVER NEAR HARRAH, OKLA.

LOCATION.--Lat 35°30'01", long 97°11'37", in SW 1/4 NW 1/4 sec.22, T.12 N., R.1 E., Oklahoma County, near left bank on downstream side of pier of county road bridge, 2.2 mi (3.5 km) northwest of Harrah, 3.8 mi (6.1 km) downstream from Choctaw Creek, and at mile 230.0 (370.1 km).

DRAINAGE AREA.--13,501 mi<sup>2</sup> (34,968 km<sup>2</sup>), of which 4,899 mi<sup>2</sup> (12,688 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD.--October 1968 to September 1974.

AVERAGE DISCHARGE.--6 years (1969-74), 272 ft<sup>3</sup>/s (7.70 m<sup>3</sup>/s).

REMARKS.--Some regulation by Canton Lake and by Lake Overholser in Oklahoma where diversions are made into Lake Hefner Canal. Low flow sustained by part of sewage effluent from Oklahoma City.

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

## NORTH CANADIAN RIVER NEAR HARRAH, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34			
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS			
1969						5	17	11	20	24	12	14	33	21	14	24	27	18	18	16	16	19	8	19	8	10	5	2	1				2	1		157392.0		
1970						2	38	118	61	44	25	20	8	4	12	4	3	6	4	3	3		2		1	2								1	1	1	2	50531.0
1971						11	55	79	93	37	22	18	6	11	7	7		3	2	3	1	2	1	2	1	1	1	2								43952.0		
1972	8	3	8	22	40	90	51	40	19	12	7	5	4	7	2	1		2	1	1		1	1		1		1									34031.0		
1973		1	6	22	14	9	16	38	49	27	12	19	13	10	5	7	5	5	6	5	8	6	27	15	15	4	8	2	4	2	1	2	2			178155.0		
1974		3	2		1	5	23	27	47	29	21	33	20	23	17	23	11	10	11		9	11	10	11	3	4	1	3		2	3				2	131464.0		

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	2191	100.0	9	99.00	181	1106	50.5	18	410.0	41	351	16.0	27	1700	14	42	1.9
1	28.00	8	2191	100.0	10	120.00	106	925	42.2	19	480.0	35	310	14.1	28	2000	3	28	1.2
2	33.00	7	2183	99.6	11	140.00	64	819	37.4	20	560.0	35	275	12.6	29	2300	7	25	1.1
3	38.00	18	2176	99.3	12	160.00	113	755	34.5	21	660.0	39	240	11.0	30	2700	6	18	.8
4	45.00	93	2158	98.5	13	190.00	69	642	29.3	22	770.0	28	201	9.2	31	3200	3	12	.5
5	53.00	273	2065	94.2	14	220.00	64	573	26.2	23	900.0	61	173	7.9	32	3700	5	9	.4
6	62.00	261	1792	81.8	15	260.00	54	509	23.2	24	1100.0	27	112	5.1	33	4400	2	4	.1
7	72.00	238	1531	69.9	16	300.00	65	455	20.8	25	1200.0	31	85	3.9	34	5100	2	2	.0
8	85.00	187	1293	59.0	17	350.00	39	390	17.8	26	1500.0	12	54	2.5					

## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## NORTH CANADIAN RIVER NEAR HARRAH, OKLAHOMA

YEAR	1		3		7		14		30		60		90		120		183		ANNUAL
1970	45.00	5	45.00	3	46.30	3	46.90	2	51.20	2	57.70	2	58.40	2	61.80	1	64.30	1	298.00
1971	44.00	3	46.00	4	48.70	4	52.10	3	63.30	5	65.40	3	77.10	4	86.00	4	129.00	4	170.00
1972	45.00	4	47.70	5	50.60	5	54.30	5	58.50	3	72.30	4	76.70	3	83.60	3	87.50	2	99.90
1973	28.00	1	29.30	1	30.90	1	32.90	1	44.00	1	53.70	1	54.50	1	75.50	2	94.90	3	191.00
1974	37.00	2	38.70	2	46.00	2	53.20	4	61.60	4	105.00	5	151.00	5	184.00	5	229.00	5	478.00

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## NORTH CANADIAN RIVER NEAR HARRAH, OKLAHOMA

YEAR	1		3		7		15		30		60		90		120		183		ANNUAL	
1969	4030.0	4	3650.0	3	2450.0	3	1810.0	2	1340.0	2	1090.0	2	893.0	2	801.0	2	611.0	2	431.0	2
1970	4260.0	3	2630.0	4	1390.0	4	801.0	4	477.0	4	339.0	4	260.0	4	239.0	4	211.0	4	138.0	4
1971	1630.0	5	1370.0	5	953.0	5	526.0	5	329.0	5	211.0	5	166.0	5	147.0	5	128.0	5	120.0	5
1972	1380.0	6	728.0	6	386.0	6	259.0	6	191.0	6	151.0	6	140.0	6	125.0	6	110.0	6	93.0	6
1973	4880.0	2	4580.0	2	3550.0	1	2230.0	1	1580.0	1	1370.0	1	1360.0	1	1120.0	1	794.0	1	488.0	1
1974	6420.0	1	4790.0	1	2690.0	2	1540.0	3	1030.0	3	901.0	3	750.0	3	680.0	3	491.0	3	360.0	3



## ARKANSAS RIVER BASIN

## 07242000 NORTH CANADIAN RIVER NEAR WETUMKA, OKLA.

LOCATION.--Lat 35°15'53", long 96°12'25", in center of SW 1/4 sec.12, T.9 N., R.10 E., Hughes County, near left bank on downstream side of pier of bridge on U.S. Highway 75, 2.3 mi (3.7 km) upstream from Wewoka Creek, 2.5 mi (4.0 km) northeast of Wetumka, and at mile 84.4 (135.8 km).

DRAINAGE AREA.--14,290 mi<sup>2</sup> (37,011 km<sup>2</sup>), of which 4,899 mi<sup>2</sup> (12,688 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD.--October 1937 to September 1974.

AVERAGE DISCHARGE.--37 years (1938-74), 676 ft<sup>3</sup>/s (19.1 m<sup>3</sup>/s).

REMARKS.--Some regulation by Lake Overholser in Oklahoma.

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

## NORTH CANADIAN RIVER NEAR WETUMKA, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS	
1938																																				255839.0
1939																																				104231.0
1940																																				57604.0
1941																																				354605.0
1942																																				659060.0
1943																																				303402.0
1944																																				145675.0
1945																																				569866.0
1946																																				310761.0
1947																																				418223.0
1948																																				277161.0
1949																																				451226.0
1950																																				456927.0
1951																																				439196.0
1952																																				124443.0
1953																																				75282.0
1954	35																																			98176.2
1955	11																																			93586.0
1956	37	2	1																																	57176.0
1957	21																																			559503.6
1958																																				249322.0
1959																																				140471.0
1960																																				456466.0
1961																																				145644.0
1962																																				186803.0
1963																																				60416.0
1964																																				86055.8
1965																																				110106.0
1966																																				86880.6
1967																																				70030.0
1968																																				208431.0
1969																																				274227.0
1970																																				139426.0
1971																																				

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	104	13514	100.0	9	3.30	6	13394	99.1	18	110.0	1462	9354	69.2	27	3500	228	485	3.5
1	0.10	2	13410	99.2	10	4.80	4	13388	99.1	19	160.0	1524	7892	58.4	28	5100	126	257	1.9
2	0.20	1	13408	99.2	11	7.10	13	13384	99.0	20	230.0	1412	6368	47.1	29	7600	82	131	.9
3	0.30	0	13407	99.2	12	10.00	37	13371	98.9	21	340.0	1177	4956	36.7	30	11000	28	49	.3
4	0.50	2	13407	99.2	13	15.00	159	13334	98.7	22	500.0	1074	3779	28.0	31	16000	10	21	.1
5	0.70	0	13405	99.2	14	23.00	177	13175	97.5	23	740.0	809	2705	20.0	32	24000	10	11	.0
6	1.00	4	13405	99.2	15	33.00	520	12998	96.2	24	1100.0	593	1896	14.0	33	36000	1	1	
7	1.50	4	13401	99.2	16	49.00	1090	12478	92.3	25	1600.0	443	1303	9.6	34				
8	2.20	3	13397	99.1	17	72.00	2034	11388	84.3	26	2400.0	375	860	6.4					

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## NORTH CANADIAN RIVER NEAR WETUMKA, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1939	56.00 19	56.70 18	57.70 17	59.70 16	66.90 15	72.10 12	76.70 10	76.80 7	82.10 7	502.00 16
1940	26.00 10	26.70 10	27.30 10	34.60 11	43.40 11	45.00 6	46.40 6	48.80 5	50.40 5	269.00 9
1941	36.00 14	43.00 14	44.90 14	47.10 14	48.10 12	54.60 8	157.00 24	152.00 21	161.00 14	213.00 5
1942	85.00 28	87.00 27	91.60 27	95.90 27	314.00 36	543.00 36	554.00 36	688.00 36	1780.00 36	1870.00 36
1943	97.00 31	163.00 36	184.00 36	203.00 36	235.00 35	262.00 31	355.00 31	368.00 31	552.00 30	1110.00 30
1944	35.00 13	59.70 20	61.40 19	63.30 17	67.70 16	75.90 16	82.20 12	89.10 11	98.00 9	649.00 20
1945	57.00 20	57.00 19	60.30 18	67.30 19	98.70 25	103.00 22	139.00 22	197.00 22	234.00 21	702.00 23
1946	151.00 36	152.00 35	156.00 35	162.00 35	175.00 30	232.00 29	371.00 33	386.00 32	752.00 34	1530.00 34
1947	72.00 24	72.00 23	72.10 23	74.10 21	81.90 19	147.00 26	151.00 23	342.00 30	533.00 29	784.00 24
1948	48.00 16	56.30 17	57.00 16	58.70 15	63.90 14	74.80 14	79.70 11	81.70 9	89.60 8	954.00 27
1949	88.00 29	90.00 28	91.70 28	93.60 26	95.10 21	96.80 20	102.00 16	108.00 14	190.00 19	848.00 26
1950	102.00 34	103.00 32	111.00 31	149.00 33	180.00 32	239.00 30	264.00 29	267.00 27	311.00 25	1210.00 32
1951	83.00 27	97.70 30	127.00 33	133.00 31	152.00 28	263.00 32	283.00 30	331.00 29	662.00 33	1390.00 33
1952	64.00 21	82.30 26	86.90 25	90.40 24	96.70 24	110.00 23	119.00 19	126.00 19	172.00 16	1000.00 28
1953	15.00 6	15.70 6	15.90 6	16.70 5	18.30 4	21.60 4	25.60 3	36.70 3	44.20 3	249.00 7
1954	21.00 8	22.00 8	25.10 9	28.50 7	35.40 6	60.40 11	95.30 15	122.00 18	174.00 17	263.00 8
1955	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	1.07 2	6.38 2	9.11 1	20.20 1	202.00 4
1956	27.00 11	32.00 12	34.30 12	39.60 12	50.70 13	75.30 15	76.00 9	78.60 8	242.00 22	352.00 13
1957	0.00 2	0.00 2	0.00 2	0.00 2	0.00 2	0.03 1	4.00 1	12.50 2	26.00 2	60.20 1
1958	132.00 35	135.00 34	141.00 34	155.00 34	170.00 29	181.00 28	218.00 28	243.00 25	329.00 26	1690.00 35
1959	73.00 25	80.00 25	90.10 26	93.50 25	95.80 23	101.00 21	103.00 17	105.00 13	127.00 12	565.00 17
1960	88.00 30	90.70 29	97.10 29	126.00 30	176.00 31	339.00 35	543.00 35	611.00 35	642.00 32	1060.00 29
1961	66.00 22	66.00 21	67.70 21	82.70 23	95.30 22	146.00 25	213.00 27	283.00 28	284.00 23	683.00 22
1962	98.00 32	103.00 33	119.00 32	141.00 32	218.00 34	326.00 34	364.00 32	435.00 33	498.00 28	609.00 19
1963	52.00 18	53.30 16	65.00 20	65.80 18	88.20 20	94.40 19	111.00 18	119.00 17	125.00 11	326.00 11
1964	9.20 4	9.90 3	10.40 3	11.30 3	14.30 3	20.30 3	27.30 4	37.40 4	45.20 4	135.00 2
1965	12.00 5	12.00 5	14.00 5	18.80 6	24.00 5	72.80 13	127.00 21	152.00 20	171.00 15	382.00 14
1966	17.00 7	17.00 7	20.40 7	32.40 9	72.20 17	85.00 17	94.70 13	111.00 15	207.00 20	236.00 6
1967	6.70 3	11.20 4	11.70 4	16.30 4	40.70 9	56.60 9	58.20 7	59.20 6	63.40 6	156.00 3
1968	23.00 9	23.00 9	23.30 8	30.60 8	36.40 7	52.10 7	73.60 8	88.40 10	98.20 10	294.00 10
1969	73.00 26	74.00 24	77.70 24	103.00 28	124.00 27	180.00 27	191.00 26	233.00 23	389.00 27	810.00 25
1970	68.00 23	69.70 22	71.10 22	76.20 22	79.40 18	90.30 18	95.20 14	95.10 12	139.00 13	451.00 15
1971	39.00 15	39.70 13	40.40 13	42.70 13	43.10 10	57.70 10	121.00 20	240.00 24	568.00 31	592.00 18
1972	51.00 17	51.70 15	55.70 15	72.70 20	105.00 26	132.00 24	178.00 25	248.00 26	289.00 24	352.00 12
1973	28.00 12	30.00 11	33.30 11	34.60 10	38.50 8	42.00 5	43.00 5	115.00 16	188.00 18	671.00 21
1974	99.00 33	102.00 31	107.00 30	126.00 29	197.00 33	285.00 33	412.00 34	530.00 34	863.00 35	1200.00 31

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## NORTH CANADIAN RIVER NEAR WETUMKA, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1938	7080.0 26	6510.0 20	4320.0 19	2460.0 21	1990.0 18	1810.0 15	1730.0 13	1460.0 14	1220.0 13	701.0 16
1939	5630.0 31	4490.0 28	3720.0 22	2830.0 19	1680.0 21	926.0 28	739.0 27	685.0 26	489.0 26	286.0 28
1940	3340.0 37	2000.0 37	1220.0 36	714.0 37	575.0 35	394.0 36	408.0 35	329.0 35	264.0 35	157.0 36
1941	15800.0 8	14300.0 8	10900.0 8	7610.0 7	5190.0 6	3670.0 7	3040.0 7	2410.0 8	1780.0 8	972.0 10
1942	22000.0 7	18600.0 7	16700.0 2	10300.0 2	6680.0 4	4530.0 4	3390.0 4	2690.0 4	2130.0 5	1810.0 1
1943	23800.0 6	19900.0 6	17700.0 6	8020.0 6	5070.0 7	2890.0 11	2110.0 11	1680.0 12	1230.0 12	831.0 12
1944	5000.0 33	3230.0 34	2450.0 32	1700.0 32	1590.0 23	1310.0 19	1060.0 19	983.0 19	698.0 20	398.0 22
1945	55800.0 1	41300.0 1	23900.0 1	12400.0 1	7120.0 3	5000.0 3	3860.0 2	3520.0 2	2680.0 2	1560.0 2
1946	13100.0 11	9960.0 12	5840.0 13	4500.0 12	3040.0 13	2100.0 13	1710.0 14	1510.0 13	1210.0 14	851.0 11
1947	9320.0 18	7770.0 17	7490.0 11	6100.0 9	4770.0 8	3860.0 5	3070.0 6	2470.0 7	1730.0 9	1150.0 9
1948	25800.0 4	24100.0 3	16500.0 3	8830.0 4	5530.0 5	3070.0 9	2300.0 10	1850.0 10	1400.0 11	757.0 14
1949	24600.0 5	21200.0 4	12700.0 5	8220.0 5	7210.0 2	5010.0 2	3700.0 3	2970.0 3	2280.0 3	1240.0 7
1950	32200.0 3	20500.0 5	11200.0 7	5730.0 10	3990.0 9	3310.0 8	2910.0 8	2360.0 9	2130.0 4	1250.0 5
1951	6770.0 27	5900.0 22	5160.0 15	4270.0 13	3870.0 10	3690.0 6	3080.0 5	2480.0 6	1850.0 7	1200.0 8
1952	5800.0 30	4690.0 26	2850.0 29	1770.0 31	1150.0 31	1040.0 23	936.0 21	803.0 21	581.0 24	340.0 25
1953	7400.0 24	3310.0 33	1720.0 34	1030.0 34	930.0 34	643.0 33	479.0 33	461.0 32	362.0 32	206.0 33
1954	12300.0 14	8510.0 15	4710.0 16	3120.0 16	1840.0 20	1000.0 24	708.0 28	554.0 28	408.0 30	269.0 29
1955	12900.0 12	10400.0 11	5820.0 14	3040.0 18	1620.0 22	1170.0 22	845.0 26	650.0 27	461.0 27	256.0 30
1956	4580.0 34	4060.0 30	3320.0 27	1860.0 28	1040.0 32	578.0 34	414.0 34	330.0 34	242.0 36	156.0 37
1957	35100.0 2	28100.0 2	16400.0 2	11400.0 2	8830.0 1	6410.0 1	4960.0 1	4160.0 1	3010.0 1	1530.0 3
1958	11400.0 16	8200.0 16	4710.0 17	3110.0 17	2060.0 17	1540.0 17	1380.0 16	1160.0 17	1090.0 16	683.0 17
1959	5860.0 29	3940.0 31	2150.0 33	1400.0 33	1350.0 26	988.0 26	940.0 20	782.0 22	642.0 21	385.0 23
1960	14000.0 10	12200.0 9	10700.0 9	6700.0 8	3770.0 11	2360.0 12	1930.0 12	1740.0 11	1480.0 10	1250.0 6
1961	6560.0 28	4940.0 25	2680.0 31	1830.0 29	1260.0 28	933.0 27	889.0 23	825.0 20	729.0 19	536.0 19
1962	3980.0 35	3630.0 32	2700.0 30	2120.0 26	1560.0 24	994.0 25	863.0 25	748.0 23	611.0 23	512.0 20
1963	5250.0 32	3140.0 35	1650.0 35	891.0 35	520.0 36	359.0 37	289.0 37	270.0 36	230.0 37	166.0 35
1964	14200.0 9	8520.0 14	4310.0 20	2270.0 23	1260.0 29	869.0 29	643.0 29	514.0 30	404.0 31	235.0 32
1965	7230.0 25	6350.0 21	3390.0 26	1780.0 30	1020.0 33	682.0 32	576.0 31	486.0 31	434.0 29	302.0 27
1966	3660.0 36	2080.0 36	1070.0 37	774.0 36	505.0 37	418.0 35	298.0 36	261.0 37	266.0 34	238.0 31
1967	8290.0 21	5860.0 23	3710.0 23	2260.0 24	1350.0 27	786.0 30	569.0 32	448.0 33	321.0 33	192.0 30
1968	11000.0 17	7630.0 18	4510.0 18	3320.0 15	2620.0 14	1840.0 14	1520.0 15	1340.0 15	983.0 17	569.0 18
1969	7420.0 23	4440.0 29	3150.0 28	2770.0 20	1980.0 19	1500.0 18	1360.0 17	1340.0 16	1150.0 15	751.0 15
1970	8480.0 19	5780.0 24	3470.0 24	2210.0 25	1440.0 25	1180.0 21	888.0 24	716.0 25	616.0 22	382.0 24
1971	8470.0 20	6980.0 19	4210.0 21	2300.0 22	2080.0 16	1230.0 20	892.0 22	738.0 24	565.0 25	428.0 21
1972	8060.0 22	4670.0 27	3420.0 25	2020.0 27	1170.0 30	731.0 31	629.0 30	528.0 29	449.0 28	329.0 26
1973	12300.0 13	11400.0 10	8060.0 10	5060.0 11	3340.0 12	3010.0 10	2760.0 9	2520.0 5	1970.0 6	1320.0 4
1974	11900.0 15	9490.0 13	5930.0 12	3760.0 14	2220.0 15	1550.0 16	1240.0 18	1090.0 18	866.0 18	817.0 13

## ARKANSAS RIVER BASIN

07242500 BELLCOW CREEK AT CHANDLER, OKLA.

LOCATION.--Lat 35°42'12", long 96°53'30", in SW 1/4 sec.9, T.14 N., R.4 E., on right bank 0.5 mi (0.8 km) upstream from bridge on U.S. Highway 66, 0.5 mi (0.8 km) west of courthouse in Chandler, and 1.4 mi (2.3 km) downstream from Bellicalf Creek.

DRAINAGE AREA.--46 mi<sup>2</sup> (119 km<sup>2</sup>).

PERIOD OF RECORD.--July 1948 to September 1955.

AVERAGE DISCHARGE.--7 years (1949-55), 12.4 ft<sup>3</sup>/s (0.351 m<sup>3</sup>/s).

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

BELLCOW CREEK AT CHANDLER, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	
YEAR	NUMBER OF DAYS IN CLASS																																		CFS-DAYS	
1949	2	13	2	1		25	43	41	23	19	21	28	38	20	12	11	11	12	13	6	4	1	2	4	4	2								1	1	7705.4
1950						9	12	37	58	67	31	25	22	25	21	6	16	3	7	3	4	1	5	2	2	3	3	2						1		5147.1
1951	7	2		2	5		7	6	9	43	99	46	35	23	13	8	19	11	5	4	1	1	1	4	4	2	1	3	3	1					6391.1	
1952	25	4		1	3	2	9	22	11	38	67	37	29	23	25	14	20	9	4	3	1	2	7	3	1	1	2	1				2			5995.9	
1953	90	6	6	8	7	17	43	21	22	18	26	31	12	17	6	3	5	3	5	2		1	3	3	3	1	4								3431.5	
1954	125	5	5	9	11	45	70	28	19	11	6	9	7	2		1	2	1	1	2		1		2		1	2		1	1	1				1748.1	
1955	344	2	3	2	2		1					1	1		2		1	2		1							1							1	1344.1	

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	593	2556	100.0	9	1.70	196	1284	50.2	18	22.0	35	168	6.6	27	280	12	27	1.0					
1	0.10	32	1963	76.8	10	2.30	252	1088	42.6	19	29.0	19	133	5.2	28	380	8	15	.5					
2	0.20	16	1931	75.5	11	3.00	177	836	32.7	20	39.0	12	114	4.5	29	500	2	7	.2					
3	0.30	23	1915	74.9	12	4.00	144	659	25.8	21	52.0	6	102	4.0	30	660								
4	0.40	28	1892	74.0	13	5.30	110	515	20.1	22	68.0	20	96	3.8	31	880	4	5	.1					
5	0.50	98	1864	72.9	14	7.10	79	405	15.8	23	91.0	16	76	3.0	32	1200	1	1	.0					
6	0.70	185	1766	69.1	15	9.40	43	326	12.8	24	120.0	16	60	2.3	33									
7	1.00	155	1581	61.9	16	12.00	74	283	11.1	25	160.0	9	44	1.7	34									
8	1.30	142	1426	55.8	17	17.00	41	209	8.2	26	210.0	8	35	1.4										

## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

BELLCOW CREEK AT CHANDLER, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1950	0.50 5	0.50 5	0.50 5	0.54 5	0.96 4	1.42 4	1.76 4	2.13 3	2.16 3	18.00 5
1951	0.80 6	0.90 6	1.11 6	1.15 6	1.43 6	2.33 6	2.41 5	2.50 4	3.49 5	15.50 4
1952	0.00 1	0.00 1	0.00 1	0.51 4	1.27 5	2.16 5	3.16 6	4.05 6	8.97 6	20.50 6
1953	0.00 2	0.00 2	0.00 2	0.00 1	0.00 1	0.01 2	0.08 2	0.54 2	0.82 2	14.00 3
1954	0.00 3	0.00 3	0.00 3	0.00 2	0.00 2	0.40 3	0.94 3	2.59 5	3.37 4	7.70 2
1955	0.00 4	0.00 4	0.00 4	0.00 3	0.00 3	0.00 1	0.00 1	0.00 1	0.00 1	3.01 1

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

BELLCOW CREEK AT CHANDLER, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL								
1949	1260.0	1	649.0	1	492.0	1	285.0	1	176.0	1	93.8	1	64.4	1	52.4	1	40.7	1
1950	620.0	5	221.0	6	112.0	6	97.8	4	71.7	3	46.2	4	45.0	3	36.2	3	25.2	4
1951	639.0	4	257.0	5	159.0	4	140.0	2	83.4	2	63.4	2	46.1	2	38.3	2	29.3	2
1952	1170.0	2	439.0	2	226.0	2	117.0	3	62.3	4	46.3	3	41.0	4	33.0	4	29.1	3
1953	341.0	7	153.0	7	77.0	7	64.9	7	36.5	6	26.5	5	23.9	5	18.9	5	17.9	5
1954	385.0	6	322.0	4	143.0	5	88.2	6	35.0	7	17.8	7	12.3	7	9.5	7	7.7	6
1955	958.0	3	411.0	3	178.0	3	83.5	5	42.8	5	21.5	6	14.7	6	11.0	6	7.3	7

## ARKANSAS RIVER BASIN

233

07243000 DRY CREEK NEAR KENDRICK, OKLA.

LOCATION.--Lat 35°46'55", long 96°51'20", in NW 1/4 NW 1/4 sec.14, T.15 N., R.4 E., Lincoln County, near left bank on downstream side of county road bridge, 1.0 mi (1.6 km) downstream from Beaver Creek and 4.5 mi (7.2 km) west of Kendrick.

DRAINAGE AREA.--69.0 mi<sup>2</sup> (178.7 km<sup>2</sup>).

PERIOD OF RECORD.--October 1955 to September 1974.

AVERAGE DISCHARGE.--19 years (1956-74), 19.8 ft<sup>3</sup>/s (0.560 m<sup>3</sup>/s).

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

DRY CREEK NEAR KENDRICK, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS	
1956	334								2	3		2	4	2	4	4	1		1	1				1		4	2	1								2002.5
1957	206								2	6	2	3	10	13	11	5	11	14	8	6	6	10	8	6	5	4	4	6	5	4	6	2	2			15945.8
1958	2								25	5	3	6	27	26	23	48	45	45	27	28	20	12	4	3	3	2	5	3		1		1			6314.0	
1959	18								14	6	8	27	48	54	38	34	22	27	20	14	6	5	3	5	4	1	1	2	4	1		1	2		7726.4	
1960	30								2	1	2	7	7	4	13	10	12	10	24	59	64	49	27	9	6	5	7	4	2	5		2	1		13541.9	
1961	17								3	6	13	28	23	74	76	33	30	15	7	6	6	3	6	4	3	1	4	1	1	2		1			6784.8	
1962									4	6	5	7	9	6	28	44	73	50	50	35	18	4	7	4	3	3	4			1	3		1		13137.2	
1963	57								5	2	2	6	6	8	18	60	117	55	10	5	2	1	3	2	3		2	1						2060.4		
1964	123								20	9	18	39	59	43	22	12	7	3	3		1	1	2				2	1					1		2302.5	
1965	106								16	15	19	34	19	29	49	18	13	15	5	2	4	5	2		1	3	3	5	1				1		4285.5	
1966	63								34	19	46	43	38	34	22	14	15	6	8	3	1		3	4	3	1		2	3	1	1		1		4747.7	
1967	63	1	3		6	3	1	13	8	16	52	25	45	38	17	22	13	10	2	5	4	2	5	1	1		2	1	5	1				5116.8		
1968	87			5	5	6	1	10	6	12	11	19	10	29	29	47	22	15	11	9	9	5	3	2	5	2	5							3947.4		
1969	114	2	1	1	1	1	1	3	1	4	9	6	5	25	31	41	34	36	14	6	9	4	3	4	4	1	1	3	1					4295.1		
1970	254	10	9	16	8	12	2	11	6	2	6	7	3	5	1	1		2	1	1	2		1	1	1	1	1	1	1	1	1				2293.5	
1971	54								14	15	18	27	35	28	80	31	14	13	8	8	2	4	2	1	3		1	3	3		1				3598.3	
1972	72	3							3	12	8	7	5	9	40	26	32	61	35	21	7	6	7	4	3	1		3		1				3227.1		
1973	60			3					2	2	3	4	2	6	15	15	28	25	25	63	37	14	5	15	9	6	4	8	4	5	3	2			14203.5	
1974	13								5	3	2	3	11	6	11	13	14	80	56	56	30	17	7	10	8	2	7	1		4	2	1	2	1		22106.6

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	1673	6940	100.0	9	0.30	176	4867	70.1	18	8.9	351	1361	19.6	27	270	37	112	1.6
1	0.01	16	5267	75.9	10	0.40	304	4691	67.6	19	13.0	283	1010	14.6	28	390	24	75	1.0
2	0.02	13	5251	75.7	11	0.60	353	4387	63.2	20	19.0	202	727	10.5	29	570	23	51	.7
3	0.03	22	5238	75.5	12	0.90	360	4034	58.1	21	28.0	115	525	7.6	30	830	13	28	.4
4	0.04	23	5216	75.2	13	1.30	523	3674	52.9	22	40.0	78	410	5.9	31	1200	11	15	.2
5	0.06	22	5193	74.8	14	2.00	448	3151	45.4	23	59.0	68	332	4.8	32	1800	3	4	.0
6	0.09	4	5171	74.5	15	2.90	502	2703	38.9	24	86.0	50	264	3.8	33	2600	1	1	.0
7	0.10	176	5167	74.5	16	4.20	431	2201	31.7	25	130.0	39	214	3.1	34				
8	0.20	124	4991	71.9	17	6.10	409	1770	25.5	26	180.0	63	175	2.5					

## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## DRY CREEK NEAR KENDRICK, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1957	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.09 2	4.44 3
1958	0.00 2	0.00 2	0.00 2	0.00 2	0.21 14	1.32 13	3.90 14	3.71 14	8.62 14	49.60 18
1959	0.00 3	0.00 3	0.00 3	0.03 15	0.03 10	0.09 8	0.24 6	0.38 5	0.55 4	11.80 8
1960	0.30 18	0.30 18	0.43 18	0.94 18	2.50 16	15.90 18	20.60 18	23.70 18	41.20 18	44.00 17
1961	0.00 4	0.00 4	0.00 4	0.00 3	0.00 2	0.75 12	1.66 11	1.73 8	1.95 7	15.00 11
1962	0.20 16	0.27 16	0.34 16	0.57 17	2.54 17	7.61 17	11.60 17	16.30 16	19.20 16	26.80 14
1963	0.30 17	0.30 17	0.39 17	0.49 16	0.98 15	3.07 15	3.40 13	3.37 13	3.77 11	28.70 15
1964	0.00 5	0.00 5	0.00 5	0.00 4	0.00 3	0.00 2	0.03 3	0.12 3	0.30 3	3.67 2
1965	0.00 6	0.00 6	0.00 6	0.00 5	0.00 4	0.05 5	0.57 10	2.79 11	2.49 8	8.72 4
1966	0.00 7	0.00 7	0.00 7	0.00 6	0.04 11	0.06 6	0.15 4	3.08 12	2.55 9	10.40 6
1967	0.00 8	0.00 8	0.00 8	0.00 7	0.00 5	0.13 9	0.25 7	0.33 4	0.91 5	12.30 9
1968	0.00 9	0.00 9	0.00 9	0.00 8	0.16 13	0.27 11	0.41 9	0.67 6	1.15 6	18.40 12
1969	0.00 10	0.00 10	0.00 10	0.00 9	0.00 6	0.07 7	0.26 8	1.55 7	3.49 10	14.50 10
1970	0.00 11	0.00 11	0.00 11	0.00 10	0.00 7	0.00 3	0.00 2	0.00 2	0.02 1	3.04 1
1971	0.00 12	0.00 12	0.00 12	0.00 11	0.00 8	0.00 4	2.05 12	2.02 9	7.73 13	10.20 5
1972	0.00 13	0.00 13	0.00 13	0.00 12	0.13 12	2.34 14	6.26 15	9.10 15	10.30 15	11.20 7
1973	0.00 14	0.00 14	0.00 14	0.00 13	0.00 9	0.13 10	0.21 5	2.39 10	5.30 12	24.30 13
1974	0.00 15	0.00 15	0.00 15	0.00 14	5.78 18	6.36 16	8.84 16	19.00 17	24.40 17	39.70 16

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## DRY CREEK NEAR KENDRICK, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1956	466.0 17	229.0 18	148.0 15	76.4 14	50.2 14	26.3 15	17.8 17	13.3 18	8.8 18	5.5 19
1957	1320.0 7	685.0 4	555.0 2	400.0 2	321.0 1	223.0 1	163.0 1	123.0 1	87.0 2	43.7 2
1958	1600.0 3	559.0 6	357.0 5	200.0 5	103.0 7	53.1 9	44.9 9	44.0 7	30.9 8	17.3 8
1959	1320.0 8	514.0 8	306.0 6	158.0 7	95.4 9	54.8 8	62.3 5	48.1 6	41.2 6	21.2 6
1960	1350.0 6	1060.0 2	490.0 3	259.0 4	136.0 5	81.4 5	61.3 6	53.6 5	46.7 5	37.0 4
1961	1560.0 4	553.0 7	245.0 9	158.0 8	100.0 8	67.1 6	52.8 8	43.6 8	34.5 7	18.6 7
1962	1880.0 2	861.0 3	450.0 4	361.0 3	194.0 3	109.0 4	89.0 4	70.6 4	54.4 4	36.0 5
1963	303.0 19	129.0 19	58.7 19	32.2 19	20.3 19	15.1 19	11.9 19	9.9 19	8.7 19	5.6 18
1964	1490.0 5	569.0 5	247.0 8	117.0 10	59.1 12	30.2 14	20.5 15	18.0 14	12.2 16	6.3 16
1965	1300.0 9	496.0 11	217.0 11	101.0 12	61.0 11	30.6 13	21.0 13	21.8 13	18.2 13	11.7 12
1966	1210.0 10	469.0 12	210.0 12	98.5 13	68.0 10	37.5 10	37.1 10	34.1 10	23.4 10	13.0 10
1967	776.0 15	401.0 13	180.0 13	144.0 9	115.0 6	64.9 7	53.2 7	40.2 9	27.1 9	14.0 9
1968	615.0 16	255.0 16	116.0 18	56.0 18	50.0 15	36.7 11	28.6 12	28.5 11	20.0 12	10.8 13
1969	798.0 13	318.0 14	147.0 16	72.9 15	47.7 16	36.2 12	28.7 11	23.0 12	20.1 11	11.8 11
1970	930.0 12	509.0 9	221.0 10	103.0 11	51.7 13	25.9 16	20.8 14	15.8 16	12.5 15	6.3 17
1971	783.0 14	276.0 15	151.0 14	70.9 16	36.6 18	19.5 18	17.9 16	16.9 15	11.9 17	9.9 14
1972	452.0 18	238.0 17	126.0 17	65.7 17	38.0 17	21.8 17	16.0 18	14.2 17	14.4 14	8.8 15
1973	1100.0 11	497.0 10	268.0 7	176.0 6	154.0 4	117.0 3	91.2 3	74.7 3	58.8 3	38.9 3
1974	3420.0 1	1970.0 1	893.0 1	448.0 1	242.0 2	174.0 2	123.0 2	119.0 2	91.9 1	60.6 1

## STATISTICS OF ANNUAL DISCHARGE FOR WATER YEARS, 1956-74

Units of annual Discharge	Mean	Standard Deviation	Coefficient of Variation	Skew Coefficient	First Order Serial Correlation Coefficient
CFS	19.8	15.7	0.79	1.31	0.24
LOGS of CFS	1.181	0.323		0.524	0.223

## 235

LOCATION.--Lat 35°40'15", long 96°04'08", on line between secs. 19 and 20, T.14 N., R.12 E., Okmulgee County, near left bank on downstream side of pier of county road bridge, 3.0 mi (4.8 km) upstream from Adams Creek, 4.0 mi (6.4 km) south of Beggs, 8.0 mi (12.9 km) downstream from Flat Rock (Checkerboard) Creek, and at mile 85.0 \*136.8 km.

AVERAGE DISCHARGE.--36 years (1939-74), 812 ft<sup>3</sup>/s (23.0 m<sup>3</sup>/s).

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS	
1939	3					14			12	32	9	20	38	25	49	44	30	23	17	17	5	6	2		3	8	6	2								43564.0
1940	13					3			2	5	19	72	28	27	23	26	25	20	17	11	8	10	12		13	14	6	8	4							99220.0
1941													11	16	21	10	17	30	39	56	28	24	15	12	13	12	20	22	4	5	3	6	1			476031.0
1942																	5	8	33	41	52	37	25	16	18	19	26	31	17	17	9	8	3			895649.0
1943									11	11	12	5	9	8	14	10	15	21	82	45	16	15	16	17	11	15	15	1	1	5	5	4		1		553959.0
1944										10	18	9	31	23	27	42	32	37	39	21	8	6	11	18	16	18										200118.0
1945											1	5	27	8	28	51	28	24	23	28	15	14	20	20	30	19	8	6	2	3	2	3				640778.0
1946									2	5	8	10	13	8	7	37	47	27	36	22	21	14	20	19	44	16	2	2	5							390822.3
1947										9	13	16	12	26	67	36	33	21	17	15	9	17	13	23	19	8	5	5								402292.5
1948										11	24	44	39	54	27	15	18	20	20	19	9	16	13	11	8	6	4	1	2	3	2					445532.8
1949									1	2	18	19	30	48	32	14	14	15	25	25	21	14	15	14	18	17	5	7	4	7					501005.2	
1950											4	5	12	35	59	45	31	35	23	18	24	19	8	12	13	11	7	3	1							364209.0
1951														4	2	22	93	40	47	31	26	16	19	17	15	22	8	3								217858.0
1952									9	7	5	4	3	4	12	21	41	42	60	34	36	17	17	12	15	16	6	5								196029.9
1953				5	18	6	10	5	3	2	1	7	11	14	41	42	41	13	17	22	18	14	21	17	9	17	7	4								124322.2
1954	18	1		3	4	4	9	9	5	9	12	20	13	7	3	39	80	32	20	17	12	10	8	7	9	3	2	9								89687.1
1955	87							3	5	11	19	14	16	58	37	24	29	17	13	5	8	6	1		1		3	3	3	2						70851.3
1956</																																				

CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT
0	0.00	194	13149	100.0	9	3.60	126	12664	96.3	18	130.0	1307	6734	51.2	27	4900	183	401	3.0
1	0.10	7	12955	98.5	10	23.40	121	12538	95.1	19	200.0	1028	5422	41.3	28	7300	94	218	1.6
2	0.20	14	12948	98.5	11	8.10	278	12302	93.6	20	300.0	857	4399	33.5	29	11000	64	124	.9
3	0.30	26	12934	98.4	12	12.00	475	10204	91.4	21	440.0	669	3542	27.8	30	16000	38	66	.9
4	0.50	14	12908	98.2	13	18.00	722	11549	87.8	22	660.0	523	2873	21.8	31	24000	20	26	.1
5	0.70	50	12894	98.1	14	27.00	780	10827	82.3	23	990.0	531	2350	17.9	32	37000	5	6	.0
6	1.10	27	12844	97.7	15	40.00	1012	10047	76.4	24	1500.0	479	1819	13.8	33	55000	1	1	.0
7	1.60	42	12817	97.5	16	60.00	1150	9035	68.7	25	2200.0	553	1340	10.2	34				
8	2.40	111	12775	97.2	17	89.00	1151	7885	60.0	26	3300.0	386	787	6.0					



LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## DEEP FORK NEAR BEGGS, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1940	0.00 1	0.00 1	0.00 1	0.14 3	2.37 4	6.37 4	7.90 4	8.21 3	13.00 3	113.00 2
1941	6.00 17	6.67 16	8.71 17	12.60 18	16.80 16	23.90 13	244.00 30	298.00 28	380.00 27	472.00 11
1942	19.00 28	21.30 28	29.40 29	37.60 28	55.40 27	146.00 31	271.00 32	399.00 32	2180.00 35	2190.00 35
1943	55.00 33	57.70 33	66.90 33	79.60 33	143.00 33	192.00 33	351.00 33	322.00 29	592.00 31	1670.00 32
1944	3.00 10	3.00 10	3.14 10	4.00 10	7.87 12	13.20 8	24.50 11	41.80 11	86.40 11	1380.00 31
1945	6.00 18	6.67 17	7.00 14	9.07 16	29.90 20	39.20 17	66.20 16	134.00 22	172.00 20	851.00 22
1946	17.00 25	18.30 24	19.90 24	21.40 21	30.50 21	92.10 27	260.00 31	371.00 31	855.00 33	1800.00 33
1947	4.90 13	5.40 13	6.24 13	8.02 13	13.10 14	84.80 25	98.80 22	199.00 25	366.00 26	734.00 19
1948	9.80 20	9.93 20	10.40 19	11.40 17	22.30 18	31.60 15	33.50 12	35.60 9	41.80 7	1040.00 25
1949	5.20 15	7.00 18	8.10 16	8.66 14	10.30 13	15.00 9	17.60 7	23.40 6	61.40 9	1320.00 28
1950	12.00 21	13.00 21	14.90 22	23.10 23	41.00 25	54.10 20	87.80 20	133.00 20	127.00 16	1240.00 27
1951	49.00 32	50.00 32	58.90 32	61.20 32	65.80 28	66.60 22	75.30 18	84.00 14	277.00 25	1070.00 26
1952	18.00 26	18.70 25	26.10 26	41.30 29	90.80 31	147.00 32	153.00 26	206.00 26	261.00 24	664.00 18
1953	0.20 4	0.20 4	0.23 4	0.31 4	0.41 3	1.26 3	5.29 3	11.60 4	19.40 4	355.00 9
1954	3.00 11	3.60 12	4.96 12	7.08 12	7.74 11	43.30 18	55.30 15	98.90 17	131.00 17	361.00 10
1955	0.00 2	0.00 2	0.00 2	0.00 1	0.00 1	0.00 1	0.00 1	0.10 1	1.33 1	183.00 4
1956	1.30 7	1.40 7	1.83 7	3.03 7	4.32 6	16.00 10	17.50 6	19.70 5	122.00 14	251.00 8
1957	0.00 3	0.00 3	0.00 3	0.00 2	0.00 2	0.00 2	0.72 2	1.89 2	7.41 2	56.90 1
1958	13.00 22	13.30 22	14.60 21	18.00 20	33.70 23	61.40 21	124.00 24	144.00 23	192.00 22	1900.00 34
1959	24.00 29	25.70 29	27.60 28	27.60 26	32.70 22	38.00 16	43.90 14	47.50 12	65.70 10	643.00 16
1960	59.00 34	60.70 34	74.60 34	109.00 35	147.00 34	468.00 35	877.00 35	1030.00 35	996.00 34	1360.00 29
1961	16.00 24	19.30 26	26.30 27	27.80 27	36.90 24	73.30 24	93.60 21	111.00 18	123.00 15	803.00 21
1962	71.00 35	76.30 35	99.30 35	106.00 34	214.00 35	299.00 34	380.00 34	523.00 34	542.00 29	799.00 20
1963	19.00 27	20.00 27	20.90 25	25.10 24	71.20 29	111.00 28	135.00 25	153.00 24	162.00 19	629.00 15
1964	0.50 5	0.73 5	0.84 5	1.45 5	4.39 7	11.50 7	21.40 9	24.50 7	32.20 5	194.00 5
1965	2.10 8	2.13 8	2.51 8	5.61 11	7.55 10	84.90 26	158.00 27	134.00 21	191.00 21	518.00 12
1966	8.50 19	9.17 19	11.10 20	16.30 19	20.80 17	27.00 14	66.50 17	90.60 15	105.00 13	236.00 6
1967	5.00 14	6.23 14	7.11 15	8.90 15	15.90 15	19.90 12	24.50 10	30.60 8	36.50 6	174.00 3
1968	5.30 16	6.63 15	9.33 18	22.00 25	43.10 26	47.10 19	80.30 19	92.20 16	97.00 12	568.00 13
1969	13.00 23	15.00 23	17.90 23	22.10 22	28.30 19	67.20 23	110.00 23	113.00 19	242.00 23	875.00 24
1970	3.10 12	3.27 11	3.44 11	3.79 9	6.55 9	11.10 6	18.10 8	36.40 10	47.40 8	247.00 7
1971	2.40 9	2.47 9	2.66 9	2.99 6	3.48 5	19.70 11	39.40 13	277.00 27	566.00 30	591.00 14
1972	27.00 30	28.00 30	32.40 30	58.00 31	80.10 30	122.00 29	232.00 28	364.00 30	434.00 28	644.00 17
1973	0.70 6	1.07 6	1.47 6	3.06 8	5.89 8	9.59 5	10.40 5	56.40 13	158.00 18	860.00 23
1974	29.00 31	33.30 31	34.70 31	47.70 30	96.30 32	122.00 30	233.00 29	503.00 33	838.00 32	1800.00 30

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## DEEP FORK NEAR BEGGS, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1939	2250.0 34	2200.0 34	1690.0 34	1380.0 34	758.0 34	506.0 35	381.0 34	308.0 35	218.0 35	119.0 35
1940	4750.0 26	4480.0 27	3590.0 28	2460.0 28	1520.0 30	882.0 31	708.0 32	567.0 30	529.0 30	271.0 30
1941	29900.0 5	23700.0 7	16900.0 8	9500.0 8	5790.0 8	5370.0 8	3950.0 7	2990.0 9	2190.0 9	1300.0 9
1942	26300.0 7	24700.0 5	20900.0 5	11900.0 7	8720.0 7	5840.0 5	4540.0 4	3510.0 5	2720.0 4	2450.0 1
1943	55600.0 1	42200.0 2	29800.0 3	23100.0 1	13500.0 1	7070.0 2	5040.0 3	3820.0 3	2660.0 6	1520.0 7
1944	4530.0 29	4250.0 30	3670.0 27	2820.0 25	2410.0 21	1790.0 19	1660.0 17	1420.0 16	986.0 21	547.0 20
1945	54500.0 2	48100.0 1	33000.0 1	18000.0 2	9570.0 3	7070.0 3	5080.0 2	4490.0 2	3240.0 2	1760.0 2
1946	12900.0 13	12400.0 13	11400.0 11	6780.0 13	3480.0 14	2270.0 15	1920.0 14	1700.0 15	1440.0 13	1070.0 12
1947	15800.0 10	14400.0 10	12900.0 10	8740.0 10	5740.0 9	4650.0 10	3470.0 10	2750.0 10	1830.0 11	1100.0 11
1948	48400.0 3	40300.0 3	30900.0 2	17500.0 3	11100.0 3	5740.0 6	4290.0 6	3390.0 7	2400.0 7	1220.0 10
1949	22900.0 8	22200.0 8	20300.0 6	14500.0 5	10800.0 4	6470.0 4	4500.0 5	3660.0 4	2680.0 5	1370.0 8
1950	18600.0 9	14200.0 11	11000.0 12	6820.0 12	4820.0 12	2680.0 12	2970.0 11	2380.0 11	1810.0 12	998.0 13
1951	5450.0 23	5300.0 23	4910.0 22	4060.0 19	2790.0 18	1920.0 16	1450.0 22	1230.0 22	1010.0 18	597.0 18
1952	6050.0 22	5510.0 22	4240.0 24	2980.0 23	1740.0 27	1610.0 21	1490.0 19	1310.0 19	914.0 22	536.0 22
1953	4520.0 30	4300.0 29	3210.0 32	1870.0 32	1560.0 29	1130.0 28	912.0 26	799.0 26	655.0 25	341.0 27
1954	4610.0 27	4500.0 26	4440.0 23	3160.0 22	1970.0 25	1050.0 30	722.0 31	562.0 32	407.0 31	246.0 32
1955	10600.0 16	8650.0 16	6530.0 16	3990.0 20	2070.0 23	1090.0 29	743.0 29	564.0 31	382.0 32	194.0 34
1956	2170.0 35	1920.0 35	1800.0 35	1200.0 35	662.0 35	342.0 36	233.0 36	179.0 36	126.0 36	114.0 36
1957	28600.0 6	24500.0 6	18800.0 7	13300.0 6	12100.0 2	8340.0 1	6480.0 1	4990.0 1	3390.0 1	1700.0 3
1958	15600.0 11	13600.0 12	11000.0 13	7770.0 11	4510.0 13	2420.0 14	1880.0 15	1830.0 13	1420.0 14	804.0 15
1959	11100.0 14	9850.0 15	6630.0 15	4250.0 18	2540.0 20	1660.0 20	1730.0 16	1370.0 18	996.0 19	538.0 21
1960	15600.0 12	15000.0 9	13800.0 9	9200.0 9	4890.0 11	3490.0 11	2540.0 12	2180.0 12	1920.0 10	1580.0 6
1961	3690.0 32	3580.0 32	3320.0 31	2700.0 26	2060.0 24	1600.0 22	1490.0 20	1240.0 20	1030.0 17	598.0 17
1962	7760.0 18	7340.0 17	6030.0 18	4690.0 17	2820.0 17	1890.0 17	1530.0 18	1390.0 17	1130.0 16	831.0 14
1963	2930.0 33	2860.0 33	2330.0 33	1590.0 33	894.0 33	665.0 33	541.0 33	463.0 33	378.0 33	252.0 31
1964	6450.0 20	6050.0 20	5190.0 21	2970.0 24	1590.0 28	1500.0 25	1090.0 25	843.0 25	613.0 27	331.0 28
1965	4540.0 28	4320.0 28	3770.0 26	2620.0 27	1430.0 32	871.0 32	726.0 30	594.0 29	645.0 26	384.0 25
1966	1730.0 36	1630.0 36	1270.0 36	952.0 36	584.0 36	535.0 34	371.0 35	389.0 34	311.0 34	219.0 33
1967	6550.0 19	6350.0 19	5910.0 19	4750.0 16	3310.0 15	1820.0 18	1320.0 23	1020.0 24	707.0 24	372.0 26
1968	6160.0 21	6010.0 21	5210.0 20	3510.0 21	3150.0 16	2490.0 13	2080.0 13	1730.0 14	1330.0 15	714.0 16
1969	4390.0 31	4240.0 31	3430.0 29	2170.0 31	1760.0 26	1510.0 23	1260.0 24	1240.0 21	986.0 20	590.0 19
1970	5440.0 24	5110.0 24	3820.0 25	2220.0 30	1450.0 31	1290.0 26	903.0 27	697.0 28	576.0 29	320.0 29
1971	5140.0 25	4610.0 25	3390.0 30	2280.0 29	2170.0 22	1280.0 27	862.0 28	727.0 27	603.0 28	519.0 24
1972	7770.0 17	7240.0 18	6110.0 17	4790.0 15	2760.0 19	1510.0 24	1480.0 21	1190.0 23	854.0 23	535.0 23
1973	10900.0 15	10500.0 14	8780.0 14	6460.0 14	4930.0 10	4670.0 9	3730.0 9	3490.0 6	2720.0 3	1610.0 4
1974	31000.0 4	28600.0 4	26200.0 4	16200.0 4	9060.0 6	5480.0 7	3770.0 8	3140.0 8	2230.0 8	1600.0 5

## MONTHLY DURATION TABLE

DEEP FURK NEAR BEGGS, OKLAHOMA

PERIOD 1938-1974

CLASS LIMIT	TOTAL PERCENT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
0.00	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0.10	98.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.7	95.3	93.3	96.4	97.7
0.15	98.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.6	95.2	93.3	95.4	97.7
0.22	98.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.6	94.9	93.3	95.0	97.7
0.33	98.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.5	94.8	93.3	94.6	97.7
0.49	98.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.1	94.8	92.4	94.1	97.7
0.73	96.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	96.2	94.8	91.8	93.5	97.7
1.10	97.7	100.0	100.0	100.0	100.0	100.0	100.0	99.9	97.6	94.1	90.0	93.0	97.6
1.60	97.5	100.0	100.0	100.0	100.0	100.0	100.0	99.6	97.4	93.5	89.1	92.7	97.6
2.40	97.2	100.0	100.0	100.0	100.0	100.0	100.0	99.4	96.8	92.8	87.4	92.4	97.3
3.60	96.3	99.9	100.0	100.0	100.0	100.0	100.0	99.0	95.4	88.4	86.1	91.5	95.5
5.40	95.4	98.6	99.8	99.6	100.0	100.0	100.0	97.9	93.0	84.9	84.6	91.0	94.7
8.10	93.6	96.9	99.2	97.8	99.5	99.3	99.6	96.1	89.2	81.2	81.7	89.6	92.8
12.00	91.4	95.3	99.1	95.9	99.4	98.7	99.5	94.4	83.6	77.2	76.6	87.9	90.4
18.00	87.8	90.8	96.0	92.2	98.1	98.3	98.1	93.4	77.9	70.7	71.4	80.8	86.9
27.00	82.3	85.1	90.4	88.2	95.6	98.0	96.4	88.5	70.2	63.1	66.5	68.7	78.0
40.00	76.4	74.9	84.1	84.1	91.9	97.1	93.4	81.0	61.7	56.0	62.3	61.9	69.2
60.00	68.7	64.7	71.2	78.0	86.2	94.8	88.9	71.4	51.1	51.3	53.9	54.5	59.0
89.00	60.0	52.9	60.1	72.0	79.4	92.1	81.3	61.6	40.9	45.3	44.4	45.6	44.4
130.00	51.2	42.7	51.0	60.0	72.5	86.8	70.8	52.4	31.6	37.2	37.6	35.5	36.6
200.00	41.3	31.4	36.1	47.2	64.3	78.1	62.2	40.9	22.0	29.8	29.6	27.5	26.3
300.00	33.5	14.7	26.3	38.3	54.0	70.6	53.5	33.3	15.1	25.0	23.4	22.0	20.3
440.00	26.9	12.2	20.4	31.1	43.3	59.7	46.4	26.7	10.2	21.2	19.4	17.1	15.6
660.00	21.6	8.2	15.3	24.7	35.8	51.1	40.1	22.4	7.1	17.3	15.5	13.5	11.1
990.00	17.9	5.1	11.5	20.2	29.5	43.8	33.8	18.9	5.3	13.2	13.1	11.4	8.6
1500.00	13.8	3.0	8.2	14.9	23.5	37.1	27.3	14.1	3.3	9.3	9.8	9.4	6.3
2200.00	10.2	2.0	4.1	9.9	18.5	28.9	22.5	9.7	2.2	5.5	7.8	7.1	4.1
3300.00	6.0	0.2	0.7	4.7	12.9	18.0	15.9	5.2	1.3	2.3	5.4	3.1	2.2
4900.00	3.0	0.0	0.0	2.1	7.6	8.0	10.0	2.8	0.5	0.5	3.3	1.1	0.5
7300.00	1.7	0.0	0.0	0.6	3.1	5.5	6.4	1.3	0.2	0.0	2.1	0.6	0.2
11000.00	0.9	0.0	0.0	0.3	1.8	3.9	3.5	0.3	0.0	0.0	1.2	0.5	0.0
16000.00	0.5	0.0	0.0	0.1	1.4	2.0	1.9	0.0	0.0	0.0	0.1	0.3	0.0
24000.00	0.2	0.0	0.0	0.0	0.5	0.6	1.0	0.0	0.0	0.0	0.0	0.0	0.0
37000.00	0.0	0.0	0.0	0.0	0.3	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0
55000.00	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0

## STATISTICS OF ANNUAL DISCHARGE FOR WATER YEARS, 1939-74

nits of annual Discharge	Mean	Standard Deviation	Coefficient of Variation	Skew Coefficient	First Order Serial Correlation Coefficient
CFS	812	582	0.72	0.90	0.39
LOGS of CFS	2.789	0.347		-0.291	0.465

## ARKANSAS RIVER BASIN

07244000 DEEP FORK NEAR DEWAR, OKLA.

LOCATION.--Lat 35°28'50", long 95°52'50", in SE 1/4 sec.25, T.12 N., R.13 E., at bridge on U.S. Highway 266, 3.2 mi (5.1 km) upstream from Wolf Creek, 3.5 mi (5.6 km) east of Dewar, and at mile 43.9 (70.6 km).

DRAINAGE AREA.--2,307 mi<sup>2</sup> (5,975 km<sup>2</sup>).

PERIOD OF RECORD.--October 1937 to September 1950.

AVERAGE DISCHARGE.--13 years (1938-50), 1,337 ft<sup>3</sup>/s (37.9 m<sup>3</sup>/s).

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

DEEP FORK NEAR DEWAR, OKLAHOMA																																			
CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS
1938																																			322830.0
1939		1		16	31	23	30	26	28	49	28	38	19	21	19	5	6	3	1	3	1	5	7	5											45644.4
1940		6	1	10	20	37	49	29	18	24	20	19	16	16	12	13	3	11	6	10	11	8	11	4	5	7									110570.3
1941																																			482934.0
1942																																			1066157.0
1943																																			636211.5
1944																																			257110.0
1945																																			822334.0
1946																																			474942.3
1947																																			500574.0
1948																																			529057.0
1949																																			631687.0
1950																																			488202.0

CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT
0	0.00	0	4748	100.0	9	26.00	249	4169	87.8	18	400.0	173	1631	34.4	27	6100	94	249	5.2
1	2.30	7	4748	100.0	10	35.00	213	3920	82.6	19	540.0	164	1458	30.7	28	8200	54	155	3.2
2	3.10	1	4741	99.9	11	48.00	237	3707	78.1	20	730.0	139	1294	27.3	29	11000	40	101	2.1
3	4.20	26	4740	99.8	12	64.00	356	3470	73.1	21	990.0	112	1155	24.3	30	15000	28	61	1.2
4	5.70	60	4714	99.3	13	87.00	371	3114	65.6	22	1300.0	155	1043	22.0	31	20000	20	33	.6
5	7.70	69	4654	98.0	14	120.00	270	2743	57.8	23	1800.0	141	888	18.7	32	28000	7	13	.2
6	10.00	123	4585	96.6	15	160.00	318	2473	52.1	24	2400.0	169	747	15.7	33	37000	5	6	.1
7	14.00	143	4462	94.0	16	220.00	248	2155	45.4	25	3300.0	173	558	11.8	34	51000	1	1	.0
8	19.00	150	4319	91.0	17	290.00	276	1907	40.2	26	4500.0	136	365	8.1					

LWTEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

DEEP FORK NEAR DEWAR, OKLAHOMA																
YEAR	1	3	7	14	30	60	90	120	183	ANNUAL						
1939	2.30	1	3.70	2	5.83	2	6.25	2	7.48	2	13.60	2	13.00	2	15.40	2
1940	2.50	2	2.50	1	2.83	1	6.13	1	6.78	1	10.90	1	11.20	1	11.90	1
1941	11.00	6	12.30	7	14.10	7	16.90	7	21.90	4	29.90	4	259.00	9	324.00	9
1942	32.00	11	35.00	11	38.10	11	45.40	11	60.90	11	167.00	11	303.00	10	471.00	12
1943	73.00	12	78.70	12	91.00	12	107.00	12	174.00	12	242.00	12	473.00	12	775.00	10
1944	6.00	3	6.00	3	6.27	3	7.69	3	22.60	6	31.60	5	43.00	4	65.30	5
1945	11.00	7	11.30	6	12.40	5	14.90	6	44.20	8	60.40	7	84.50	6	193.00	7
1946	23.00	10	24.30	10	26.40	10	30.30	9	49.40	9	105.00	10	308.00	11	435.00	11
1947	9.30	4	9.77	4	10.90	4	13.30	5	21.90	5	164.00	9	120.00	7	222.00	8
1948	14.00	8	14.00	8	15.30	8	17.10	8	32.40	7	45.00	6	50.40	5	53.40	4
1949	10.00	5	10.70	5	12.60	6	12.90	4	14.90	3	21.10	3	24.50	3	32.30	3
1950	22.00	9	23.00	9	24.10	9	31.00	10	54.30	10	77.60	8	135.00	8	175.00	6

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

DEEP FORK NEAR DEWAR, OKLAHOMA																
YEAR	1	3	7	15	30	60	90	120	183	ANNUAL						
1938	10100.0	10	9140.0	10	7580.0	10	5980.0	10	3580.0	10	2620.0	10	2350.0	10	2170.0	10
1939	2190.0	13	2110.0	13	1850.0	13	1390.0	13	754.0	13	524.0	13	389.0	13	314.0	13
1940	4140.0	12	4110.0	12	3990.0	12	2740.0	12	1710.0	12	994.0	12	786.0	12	627.0	12
1941	22900.0	5	19600.0	6	15100.0	6	9670.0	7	5540.0	8	4890.0	7	3820.0	8	2900.0	8
1942	26800.0	4	23700.0	4	21200.0	4	14600.0	5	11100.0	5	7270.0	4	5150.0	4	3950.0	4
1943	43200.0	2	38100.0	2	29500.0	3	22900.0	1	14500.0	1	7700.0	3	5560.0	3	4220.0	3
1944	5430.0	11	5340.0	11	4940.0	11	3780.0	11	3010.0	11	2220.0	11	2160.0	11	1840.0	11
1945	54600.0	1	48600.0	1	36800.0	1	22100.0	2	11800.0	4	8760.0	1	6320.0	1	5710.0	1
1946	11800.0	9	11400.0	9	10200.0	9	7020.0	9	4040.0	9	3210.0	9	2590.0	9	2230.0	9
1947	14700.0	8	13900.0	8	12400.0	8	9980.0	8	6970.0	6	5620.0	6	4180.0	6	3290.0	6
1948	37300.0	3	36600.0	3	30600.0	2	19300.0	3	12600.0	3	6590.0	5	4950.0	5	3940.0	5
1949	21700.0	6	21300.0	5	19800.0	5	15600.0	4	13100.0	2	8170.0	2	5650.0	2	4580.0	2
1950	19400.0	7	16900.0	7	14300.0	7	9530.0	8	5970.0	7	3320.0	8	3860.0	7	3100.0	7

## STATISTICS OF ANNUAL DISCHARGE FOR WATER YEARS, 1938-50

Units of annual Discharge	Mean	Standard Deviation	Coefficient of Variation	Skew Coefficient	First Order Serial Correlation Coefficient
CFS	1,337	745	0.56	0.30	0.24
LOGS of CFS	3.024	0.370		-1.601	0.411

## 239

LOCATION.--Lat 35°15'45", long 95°14'19", in SE 1/4 SE 1/4 sec.12, T.9 N., R.19 E., Haskell County, near right bank on downstream side of pier of bridge on State Highway 2, 0.8 mi (1.3 km) north of Whitefield, 5.5 mi (8.8 km) upstream from Taleka (Snake) Creek, 8.2 mi (13.2 km) downstream from Eufaula Dam, and at mile 18.8 (30.2 km).

PERIOD OF RECORD.--July 1938 to September 1974. Statistical summaries for this station are divided into unregulated and regulated periods.

REMARKS.--Prior to February 1964, occasional slight regulation by Conchas Lake in New Mexico and, except for 54 mi<sup>2</sup> (140 km<sup>2</sup>) of intervening area, completely regulated thereafter by Eufaula Lake in Oklahoma.

## CANADIAN RIVER NEAR WHITEFIELD, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34																																											
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS																																											
1939																																			13	9	43	45	46	71	36	29	18	17	9	12	13	2	2											645821.0																		
1940																																			5	71	84	20	24	25	20	11	23	19	19	19	11	10	3	2											596322.0																	
1941																																			3	19	21	8	11	11	17	27	35	37	53	19	39	29	20	8	6	2											288209.5															
1942																																			18	32	58	44	35	44	39	27	18	23	14	9	3	1											518495.0																			
1943																																			3	29	18	18	24	56	47	42	34	18	17	13	14	17	7	3	1	1	2	1											271516.0													
1944																																			36	27	27	34	39	45	38	29	29	27	15	8	12											1280174.0																				
1945																																			1	13	20	32	48	45	24	25	16	20	23	24	26	24	11	9	1	3											4783161.0															
1946																																			27	13	25	48	40	36	40	29	21	26	29	16	9	5	1											2512829.0																		
1947																																			7	12	16	34	41	52	56	21	29	16	21	13	15	12	12	5	3											3283745.0																
1948																																			1	13	36	40	28	40	45	41	20	17	18	30	13	10	6	3	2	1	2											2343101.0														
1949																																			27	53	30	24	21	25	34	21	27	23	21	18	17	11	7	3	2	1											2914365.0															
1950																																			35	35	28	32	44	42	32	37	40	23	14	14	15	6	5	4	1											3636991.0																
1951																																			1	9	12	66	52	36	38	52	30	24	21	8	6	7	3											1677211.0																		
1952																																			10	8	5	9	28	49	37	36	35	31	24	26	27	19	10	6	3	2	1											958941.0														
1953																																			29	10	16	10	39	40	37	23	8	28	29	16	15	14	9	12	12	13	5											1191513.0														
1954																																			18	9	16	3	10	20	16	17	33	59	30	21	23	20	12	7	14	6	2	2	2	2											1084601.0											
1955																																			4	3	9	16	21	12	8	23	43	32	29	31	31	32	24	15	10	8	6	2	3	2	1											949498.0										
1956																																			3	4	21	32	100	46	25	25	12	13	9	7	7	8	1	5	1											358605.5																
1957																																			1	2	5	10	4	6	4	1	1	5	2	3	7	6	17	19	11	23	24	11	7	14	34	28	21	23	10	11	20	17	8	16	4											4219843.8
1958																																			3	37	37	46	40	50	40	31	43	16	14	6	2											2257878.0																				
1959																																			4	23	84	48	39	27	19	29	30	20	16	11	7	3	5											1524743.0																		
1960																																			3	13	9	17	40	38	43	44	53	44	23	15	12	4	2	6											3795304.0																	
1961																																			5	40	40	61	54	48	46	35	16	8	7	4	1											1594509.0																				
1962																																			1	8	15	13	14	13	35	96	59	36	24	17	12	5	7	5	3	2											1712202.0															
1963																																			1	8	15	13	14	13	35	96	59	36	24	17	12	5	7	5	3	2											716351.0															
1964																																			2	15	6	9	22	38	22	27	44	35	16	24	46	36	5	7	5	4	3											35726.9														
CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT																																												
0	0.00	0	9497	100.0	9	9.70	50	9337	98.3	18	370.0	649	7423	78.2	27	14000	320	958	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1																																												
1	0.40	1	9497	100.0	10	15.00	44	9287	97.8	19	550.0	790	6774	71.3	28	20000	264	638	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1																																												
2	0.60	2	9496	100.0	11	22.00	100	9243	97.3	20	820.0	813	5984	63.0	29	31000	185	374	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1																																												
3	0.90	10	9494	100.0	12	33.00	85	9143	96.3	21	1200.0	877	5171	54.4	30	46000	95	189	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1																																												
4	1.30	39	9484	99.9	13	49.00	94	9058	95.4	22	1800.0	850	4294	45.2	31	68000	56	94	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1																																												
5	1.90	12	9445	99.5	14	73.00	211	8964	94.4	23	2700.0	761	3444	36.3	32	100000	27	38	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1																																												
6	2.90	20	9433	99.3	15	110.00	299	8753	92.2	24	4100.0	676	2683	28.3	33	150000	10	11	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1																																												
7	4.40	32	9413	99.1	16	160.00	479	8454	89.0	25	6100.0	545	2007	21.1	34	230000	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1																																												
8	6.50	44	9381	98.8	17	240.00	552	7975	84.0	26	9100.0	504	1462	15.4																																																																

## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## CANADIAN RIVER NEAR WHITEFIELD, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1940	72.00 7	75.70 7	78.10 5	80.60 5	90.20 5	110.00 5	115.00 5	114.00 4	144.00 4	1480.00 3
1941	66.00 6	67.70 6	110.00 7	119.00 7	149.00 6	199.00 7	1250.00 18	1610.00 16	2340.00 17	3130.00 7
1942	456.00 23	462.00 23	483.00 22	802.00 23	2280.00 25	2950.00 24	2970.00 24	3880.00 24	12600.00 25	13500.00 25
1943	700.00 25	730.00 25	764.00 25	816.00 24	947.00 22	1310.00 20	2330.00 21	3000.00 21	4460.00 22	9360.00 21
1944	155.00 9	156.00 9	162.00 9	180.00 9	237.00 10	346.00 9	440.00 8	571.00 9	579.00 6	6550.00 15
1945	178.00 12	182.00 12	189.00 12	220.00 12	469.00 15	724.00 13	840.00 12	1360.00 15	1600.00 13	6500.00 14
1946	325.00 19	343.00 19	367.00 19	427.00 19	584.00 17	994.00 19	2360.00 22	3120.00 22	5370.00 23	12000.00 23
1947	247.00 16	248.00 16	249.00 16	257.00 14	307.00 11	934.00 18	1060.00 15	2020.00 18	3810.00 20	6650.00 17
1948	157.00 10	160.00 10	166.00 10	184.00 10	352.00 13	478.00 11	530.00 10	642.00 10	945.00 9	7720.00 19
1949	204.00 13	208.00 13	209.00 13	215.00 11	224.00 9	289.00 8	308.00 7	384.00 7	797.00 7	6620.00 16
1950	297.00 17	297.00 17	315.00 17	352.00 17	532.00 16	923.00 17	1120.00 17	1320.00 14	1580.00 12	7600.00 18
1951	350.00 20	427.00 22	539.00 23	564.00 21	593.00 18	660.00 12	831.00 11	908.00 11	3030.00 18	9890.00 22
1952	210.00 14	223.00 14	238.00 14	260.00 15	374.00 14	754.00 16	906.00 13	1020.00 12	1070.00 10	4040.00 10
1953	22.00 4	23.00 4	24.40 4	24.50 4	26.10 4	49.10 4	85.30 4	143.00 5	191.00 5	2270.00 4
1954	54.00 5	63.70 5	81.70 6	98.60 6	179.00 8	742.00 14	942.00 14	1250.00 13	1820.00 14	3590.00 9
1955	10.00 3	10.70 3	11.00 3	11.60 3	14.90 2	20.60 2	42.60 2	74.60 2	97.10 3	2640.00 6
1956	128.00 8	132.00 8	137.00 8	141.00 8	155.00 7	172.00 6	205.00 6	322.00 6	1170.00 11	2570.00 5
1957	0.40 1	0.60 1	0.86 1	1.09 1	1.32 1	2.37 1	8.93 1	33.30 1	93.50 2	894.00 1
1958	370.00 21	388.00 20	435.00 20	504.00 20	788.00 21	1670.00 22	2270.00 20	2550.00 20	3130.00 19	13000.00 24
1959	228.00 15	229.00 15	239.00 15	265.00 16	327.00 12	445.00 10	489.00 9	492.00 8	902.00 8	4920.00 11
1960	382.00 22	388.00 21	435.00 21	793.00 22	1550.00 24	4270.00 25	6380.00 25	5990.00 25	7040.00 24	9010.00 20
1961	325.00 18	342.00 18	367.00 18	405.00 18	702.00 20	1520.00 21	1940.00 19	2190.00 19	2270.00 16	6470.00 13
1962	612.00 24	656.00 24	698.00 24	971.00 25	1470.00 23	2500.00 23	2710.00 23	3710.00 23	4220.00 21	5100.00 12
1963	158.00 11	160.00 11	185.00 11	231.00 13	665.00 19	744.00 15	1100.00 16	1700.00 17	1990.00 15	3380.00 8
1964	4.80 2	4.87 2	5.09 2	6.03 2	15.60 3	36.40 3	59.60 3	83.50 3	93.20 1	1010.00 2

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## CANADIAN RIVER NEAR WHITEFIELD, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1939	40400.0 20	28800.0 22	20800.0 22	14500.0 21	8240.0 22	5220.0 22	4190.0 22	3830.0 22	2950.0 23	1770.0 23
1940	22800.0 25	17500.0 25	11900.0 25	6920.0 25	5720.0 24	4070.0 24	4020.0 23	3580.0 23	3110.0 22	1630.0 24
1941	77100.0 13	63600.0 11	53000.0 11	40900.0 10	29500.0 10	24200.0 8	19600.0 8	16300.0 7	12600.0 7	7900.0 8
1942	149000.0 4	152000.0 5	106000.0 4	73400.0 4	50600.0 3	35500.0 3	25900.0 3	20100.0 3	15300.0 4	14200.0 1
1943	239000.0 1	217000.0 1	142000.0 1	86900.0 1	52400.0 2	28900.0 6	20900.0 7	16000.0 8	12000.0 9	7440.0 9
1944	28800.0 24	27600.0 23	19600.0 23	13400.0 22	11600.0 19	9750.0 16	8740.0 16	8040.0 15	6210.0 16	3500.0 17
1945	225000.0 2	202000.0 2	135000.0 2	78600.0 3	47600.0 4	42100.0 2	33200.0 2	30700.0 2	23400.0 1	13100.0 2
1946	85800.0 12	61700.0 13	39100.0 13	30800.0 12	22100.0 11	16400.0 11	13100.0 11	12300.0 11	10500.0 11	6880.0 10
1947	118000.0 10	103000.0 9	73300.0 9	58700.0 6	41000.0 6	30500.0 5	22600.0 6	17700.0 6	14200.0 6	9000.0 6
1948	186000.0 5	157000.0 4	107000.0 3	66500.0 5	40800.0 7	22900.0 9	17400.0 9	13600.0 10	11700.0 10	6400.0 11
1949	155000.0 6	130000.0 6	89700.0 7	58500.0 7	46200.0 5	31600.0 4	22800.0 5	18900.0 5	15100.0 5	7980.0 7
1950	218000.0 3	159000.0 3	97800.0 6	56200.0 8	35900.0 8	24400.0 7	23300.0 4	19900.0 4	16700.0 3	9960.0 5
1951	52000.0 16	45900.0 16	36400.0 16	24400.0 15	20300.0 13	14200.0 12	10600.0 13	9390.0 13	7870.0 13	4600.0 14
1952	48000.0 18	39500.0 17	27400.0 18	18600.0 17	11800.0 18	8850.0 19	7480.0 18	6460.0 19	4520.0 21	2620.0 20
1953	39300.0 21	35600.0 20	27500.0 17	15700.0 18	13700.0 17	11000.0 15	8750.0 15	7380.0 16	6230.0 15	3260.0 18
1954	128000.0 9	98500.0 10	59100.0 10	36800.0 11	21900.0 12	12000.0 13	8240.0 17	6330.0 20	4610.0 19	2970.0 19
1955	86900.0 11	63100.0 12	44100.0 12	27400.0 13	15700.0 15	9210.0 17	7470.0 19	6250.0 21	4520.0 20	2600.0 21
1956	32200.0 23	23100.0 24	14500.0 24	9180.0 24	5020.0 25	2640.0 25	1820.0 25	1410.0 25	1170.0 25	980.0 25
1957	131000.0 8	106000.0 8	99800.0 5	80100.0 2	66300.0 1	49400.0 1	40200.0 1	31400.0 1	22100.0 2	11600.0 3
1958	56800.0 15	46900.0 15	36700.0 15	25600.0 14	18100.0 14	11500.0 14	11200.0 12	10900.0 12	9800.0 12	6190.0 12
1959	66600.0 14	56300.0 14	37400.0 14	22100.0 16	13900.0 16	9100.0 18	10500.0 14	8690.0 14	7040.0 14	4180.0 16
1960	146000.0 7	129000.0 7	87500.0 8	50900.0 9	33900.0 9	20700.0 10	16300.0 10	13900.0 9	12400.0 8	10400.0 4
1961	48100.0 17	37500.0 18	23900.0 19	15300.0 19	9580.0 21	8630.0 20	7420.0 20	7320.0 17	6080.0 17	4370.0 15
1962	42700.0 19	37300.0 19	23700.0 20	14700.0 20	9740.0 20	7750.0 21	7340.0 21	6520.0 18	5640.0 18	4690.0 13
1963	37700.0 22	33900.0 21	21000.0 21	11300.0 23	6000.0 23	4370.0 23	3310.0 24	2700.0 24	2710.0 24	1960.0 22
1964	1500.0 26	834.0 26	573.0 26	323.0 26	253.0 26	195.0 26	167.0 26	130.0 26	104.0 26	97.6 26



## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

CANADIAN RIVER NEAR WHITEFIELD, OKLAHOMA

CLASS 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34

YEAR	NUMBER OF DAYS IN CLASS																				CFS_DAYS			
1965	1	22	9	15	18	14	13	6	14	23	39	38	32	24	29	24	24	17	3	529323.0				
1966	1	1	8	18	14	14	15	23	63	37	27	25	17	39	46	17					630628.0			
1967	14	18	25	21	23	24	33	28	35	36	30	24	35	9	10						436514.0			
1968	1	8	6	6	6	10	10	15	14	15	14	24	28	41	65	35	31	23	1	5	4	4	2363675.0	
1969		2	2	9	3	3	9	9	17	13	12	22	41	56	46	31	34	42	8	6			2410535.0	
1970	3	4	16	7	9	13	10	16	22	23	26	23	39	49	59	34	2	10				1302970.0		
1971	3	6	9	9	5	6	9	12	17	27	16	23	67	71	45	9	15	9	3	4			1580520.0	
1972	5	19	27	9	6	15	9	14	15	20	21	35	31	46	39	26	15	3	7	2			1382047.0	
1973	6	7	7	11	5	8	7	8	11	14	8	16	20	34	25	33	25	56	21	40	3			3712650.0
1974		2	7	4	8	6	2	12	10	25	15	50	35	34	34	51	21	33	18	12	6			2725736.0

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	3652	100.0	9	15.00	0	3652	100.0	18	280.0	114	3160	86.5	27	5100	357	1044	28.5
1	1.10	0	3652	100.0	10	20.00	1	3652	100.0	19	380.0	135	3046	83.4	28	7100	224	687	18.8
2	1.50	0	3652	100.0	11	28.00	22	3651	100.0	20	530.0	216	2911	79.7	29	9800	143	463	12.6
3	2.10	0	3652	100.0	12	39.00	10	3629	99.4	21	730.0	216	2695	73.6	30	14000	176	320	8.7
4	2.90	0	3652	100.0	13	54.00	48	3619	99.1	22	1000.0	232	2479	67.9	31	19000	55	144	3.9
5	4.00	0	3652	100.0	14	75.00	92	3571	97.8	23	1400.0	191	2247	61.5	32	26000	68	89	2.4
6	5.60	0	3652	100.0	15	100.00	131	3479	95.3	24	1900.0	243	2056	56.3	33	36000	17	21	.5
7	7.70	0	3652	100.0	16	146.00	103	3348	91.7	25	2700.0	359	1813	49.6	34	50000	4	4	.1
8	11.00	0	3652	100.0	17	200.00	85	3245	88.9	26	3700.0	410	1454	39.8					

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

CANADIAN RIVER NEAR WHITEFIELD, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1965	1.10	1.23	1.26	2.18	2.39	5.45	31.80	65.70	98.50	407.00
1966	52.00	117.00	194.00	213.00	419.00	611.00	575.00	641.00	1050.00	1620.00
1967	56.00	94.70	166.00	186.00	339.00	444.00	454.00	627.00	1310.00	1850.00
1968	63.00	81.30	177.00	233.00	355.00	629.00	740.00	729.00	1110.00	2640.00
1969	76.00	124.00	431.00	618.00	1320.00	1540.00	2180.00	2470.00	3580.00	7670.00
1970	58.00	61.00	325.00	778.00	1370.00	1750.00	2240.00	2480.00	2680.00	4660.00
1971	64.00	72.00	313.00	412.00	954.00	2340.00	3010.00	3650.00	4450.00	5190.00
1972	66.00	81.70	590.00	1220.00	1640.00	1930.00	2200.00	2500.00	2730.00	4220.00
1973	65.00	66.70	76.60	140.00	431.00	722.00	958.00	1120.00	1560.00	4430.00
1974	98.00	203.00	551.00	867.00	1280.00	1760.00	2190.00	2420.00	6480.00	10400.00

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

CANADIAN RIVER NEAR WHITEFIELD, OKLAHOMA

YEAR	1		3		7		15		30		60		90		120		183		ANNUAL
1965	6110.0	8	7420.0	6	6080.0	8	5810.0	8	5130.0	8	4200.0	8	3560.0	8	2940.0	9	2180.0	9	1450.0
1966	6640.0	9	5690.0	10	4560.0	9	4330.0	9	3930.0	9	3590.0	9	3280.0	9	3120.0	8	2410.0	8	1730.0
1967	6410.0	10	5960.0	9	3940.0	10	3010.0	10	2960.0	10	2640.0	10	2140.0	10	1720.0	10	1280.0	10	1200.0
1968	56400.0	1	56400.0	1	48100.0	1	33400.0	1	21600.0	3	16200.0	2	15100.0	2	15300.0	2	10300.0	3	6460.0
1969	30600.0	5	29500.0	5	24300.0	5	22500.0	5	17500.0	4	13300.0	4	12800.0	3	12700.0	3	10400.0	2	6600.0
1970	15800.0	7	15400.0	7	14600.0	7	13100.0	7	9670.0	7	7590.0	7	6560.0	7	6010.0	7	4520.0	7	3570.0
1971	37300.0	4	37000.0	3	34700.0	3	23800.0	4	16700.0	5	11100.0	5	8940.0	5	7480.0	5	5940.0	5	4350.0
1972	27900.0	6	26400.0	6	23500.0	6	19500.0	6	12800.0	6	10400.0	6	8500.0	6	7480.0	6	5700.0	6	3780.0
1973	37400.0	3	36600.0	4	34000.0	4	32500.0	2	30600.0	1	26100.0	1	23500.0	1	21300.0	1	17100.0	1	10200.0
1974	37800.0	2	37200.0	2	34900.0	2	29600.0	3	24100.0	2	15500.0	3	11800.0	4	10700.0	4	9340.0	4	7470.0



## ARKANSAS RIVER BASIN

## 07245500 SALLISAW CREEK NEAR SALLISAW, OKLA.

LOCATION.--Lat 35°27'52", long 94°51'43", in SW 1/4 sec.34, T.12 N., R.23 E., Sequoyah County, on downstream side of right pier of abandoned county road bridge, 300 ft (91.4 m) upstream from U.S. Highway 64, 400 ft (121.9 m) downstream from water-supply dam of city of Sallisaw, 3.5 mi (5.6 km) west of Sallisaw, 5 mi (8 km) upstream from Little Sallisaw Creek, and at mile 9.0 (14.5 km).

DRAINAGE AREA.--182 mi<sup>2</sup> (471 km<sup>2</sup>).

PERIOD OF RECORD.--October 1942 to September 1974.

AVERAGE DISCHARGE.--32 years (1943-74), 197 ft<sup>3</sup>/s (5.58 m<sup>3</sup>/s).

REMARKS.--Small diversion above station for municipal water supply of city of Sallisaw.

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

## SALLISAW CREEK NEAR SALLISAW, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34		
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS		
1943	8		11	14	2	6	6	1	3		2	13	8	21	15	5	24	35	39	48	34	19	13	15	7	7	1	4	1	1	1	1			105555.6		
1944											5	15	23	49	33	23	25	53	30	30	23	17	12	10	4	7	4	2	1						58150.9		
1945											7	16	28	60	43	32	24	13	9	21	14	24	20	12	15	11	4	5	2	2	1	2			206185.6		
1946											23	16	7	5	14	37	37	29	33	39	34	37	16	14	9	6	6	1	1	1					78470.0		
1947											16	14	15	15	16	16	30	33	26	22	46	32	20	19	12	11	9	5	4	1	2	1			98393.3		
1948											1	14	23	14	18	40	41	27	41	36	25	19	24	16	14	3	7	3						74431.3			
1949												11	44	34	22	13	21	23	27	37	33	28	22	20	9	9	2	7	2		1				96314.6		
1950												11	78	29	22	31	37	32	43	32	24	8	5	5	3	1	2		1	2		1	1		86909.0		
1951											6	11	19	66	13	23	31	32	21	29	37	22	17	15	6	6	7	1		1	2				56561.7		
1952											2	26	10	11	24	17	25	10	20	24	55	45	39	25	13	10	4	1	2	3					52354.7		
1953											3	37	28	20	26	11	10	35	48	24	17	8	15	7	13	16	12	11	9	7	3	1	3	1		41506.5	
1954											1	19	10	64	25	10	6	7	20	20	36	38	24	14	21	6	4	1	2	2	1			1		17406.5	
1955											22	1	1		10	30	34	38	16	11	10	5	8	11	25	30	32	44	16	6	4	5	1	1	2	2	43793.3
1956											2	14	3	29	47	63	24	15	5	6	4	28	55	19	15	8	9	4	6	6	3					13095.9	
1957											10				3	7	4	10	19	35	5	8	21	9	12	19	29	23	14	18	14	12	10	4	5	1	124769.9
1958																																				99107.0	
1959																																				61519.9	
1960																																				63926.4	
1961																																					68258.9
1962																																					52214.5
1963																																					16756.1
1964																																					19973.9
1965																																					30432.5
1966																																					54107.8
1967																																					15543.7
1968																																					94633.4
1969																																					85459.3
1970																																					75444.0
1971																																					76389.3
1972																																					48730.8
1973																																					144197.2
1974																																					143984.4

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	205	11688	100.0	9	1.70	272	10424	89.2	18	63.0	959	5170	44.2	27	2200	62	127	1.0
1	0.05	1	11483	98.2	10	2.60	360	10152	86.9	19	93.0	1044	4211	36.0	28	3300	38	65	.5
2	0.07	0	11482	98.2	11	3.90	394	9772	83.6	20	140.0	921	3167	27.1	29	5000	13	27	.2
3	0.10	89	11482	98.2	12	5.80	549	9378	80.2	21	210.0	660	2246	19.2	30	7400	8	14	.1
4	0.20	297	11393	97.5	13	8.60	575	8829	75.5	22	310.0	483	1586	13.6	31	11000	3	6	.0
5	0.40	59	11096	94.9	14	13.00	711	8254	70.6	23	460.0	367	1103	9.4	32	16000	1	3	.0
6	0.50	172	11037	94.4	15	19.00	769	7543	64.5	24	680.0	253	736	6.3	33	24000	2	2	.0
7	0.80	214	10865	93.0	16	24.00	776	6774	58.0	25	1000.0	228	483	4.1	34				
8	1.20	227	10651	91.1	17	42.00	828	5998	51.3	26	1500.0	128	255	2.2					

## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## SALLISAW CREEK NEAR SALLISAW, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1944	0.00 1	0.00 1	0.03 4	0.05 4	0.13 4	1.07 11	6.22 12	11.90 11	13.20 9	238.00 22
1945	2.80 25	3.07 25	3.81 25	5.67 26	7.54 24	12.60 23	15.80 22	17.80 18	29.00 13	290.00 28
1946	9.20 30	9.40 30	9.50 30	9.75 28	13.00 28	26.30 28	42.00 27	94.00 29	85.10 24	467.00 31
1947	1.80 20	1.80 19	1.90 18	2.11 17	2.44 15	3.35 14	6.85 15	15.00 16	150.00 28	262.00 25
1948	2.40 22	2.43 22	2.61 22	3.36 21	4.78 19	8.57 20	12.60 21	12.80 15	31.10 14	228.00 20
1949	3.70 26	6.10 27	6.19 27	6.24 27	6.40 23	13.60 25	12.50 20	28.80 22	79.70 23	220.00 18
1950	3.90 27	4.13 26	4.71 26	5.34 25	7.72 25	14.10 26	16.10 23	17.30 17	35.20 15	247.00 24
1951	1.70 19	1.97 20	3.30 24	3.84 23	5.19 21	5.44 19	6.29 13	12.30 12	26.00 12	209.00 17
1952	2.40 23	2.63 24	2.90 23	4.25 24	10.50 27	14.20 27	17.10 24	45.10 24	75.00 22	156.00 13
1953	0.40 11	0.40 11	0.49 12	0.54 12	0.59 11	0.93 7	1.47 7	3.19 7	6.63 7	98.30 8
1954	0.40 12	0.40 12	0.44 11	0.47 11	0.51 9	0.53 5	0.61 4	0.94 4	2.94 6	86.10 5
1955	0.00 2	0.00 2	0.00 1	0.00 1	0.00 1	0.04 3	0.18 3	0.42 3	1.21 2	131.00 11
1956	0.60 15	0.60 14	0.60 13	0.64 13	0.72 13	0.88 6	1.05 6	1.17 5	2.08 4	33.90 2
1957	0.00 3	0.00 3	0.00 2	0.00 2	0.00 2	0.00 1	0.08 2	0.31 2	1.89 3	68.30 4
1958	1.00 17	1.07 17	1.17 17	3.49 22	8.81 26	10.80 21	30.00 26	46.80 26	97.30 27	416.00 29
1959	10.00 31	10.00 31	10.70 31	12.20 31	17.50 30	34.90 30	48.70 28	69.60 28	71.50 20	222.00 19
1960	2.60 24	2.60 23	2.60 21	2.71 19	6.29 22	10.90 22	51.30 29	54.40 27	94.30 26	193.00 16
1961	1.10 18	1.30 18	2.07 19	2.64 18	3.16 17	3.39 15	4.07 10	7.33 10	35.80 16	144.00 12
1962	6.60 28	7.60 29	8.84 29	11.30 30	22.70 31	56.80 31	88.30 31	99.50 30	159.00 29	243.00 23
1963	2.30 21	2.43 21	2.54 20	2.81 20	3.22 18	3.40 16	7.01 16	20.70 19	36.60 17	58.30 3
1964	0.00 4	0.00 4	0.00 3	0.00 3	0.00 3	0.00 2	0.00 1	0.03 1	0.09 1	24.30 1
1965	0.10 6	0.10 6	0.14 7	0.19 6	0.28 7	3.30 12	7.89 18	12.40 13	15.30 10	91.10 7
1966	0.30 10	0.30 10	0.30 10	0.30 9	0.37 8	1.03 9	2.33 8	6.49 8	6.64 8	105.00 9
1967	0.18 9	0.18 9	0.18 9	0.20 8	0.23 6	0.29 4	0.73 5	1.42 6	2.77 5	87.20 6
1968	0.56 14	0.62 15	0.74 14	1.09 14	2.87 16	4.25 17	4.07 9	6.86 9	19.80 11	179.00 14
1969	0.47 13	0.59 13	0.84 16	1.20 15	1.57 14	4.37 18	11.10 19	12.50 14	74.80 21	286.00 27
1970	0.10 7	0.10 7	0.14 8	0.19 7	0.53 10	1.03 10	4.10 11	43.40 23	93.00 25	183.00 15
1971	0.10 8	0.10 8	0.10 5	0.10 5	0.20 5	0.94 8	7.34 17	24.30 21	177.00 30	269.00 26
1972	0.70 16	0.77 16	0.81 15	1.45 16	5.09 20	12.70 24	21.40 25	23.80 20	56.80 18	127.00 10
1973	0.05 5	0.08 5	0.13 6	0.34 10	0.65 12	3.33 13	6.59 14	45.80 25	57.80 19	230.00 21
1974	7.20 29	7.37 28	8.01 28	11.00 29	13.50 29	26.70 29	70.00 30	123.00 31	257.00 31	453.00 30

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## SALLISAW CREEK NEAR SALLISAW, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1943	20900.0 2	10700.0 2	4960.0 2	2640.0 2	1610.0 3	958.0 4	719.0 4	554.0 7	483.0 7	289.0 5
1944	3800.0 21	2230.0 22	1460.0 19	862.0 21	644.0 20	548.0 14	457.0 14	405.0 14	288.0 19	159.0 19
1945	27000.0 1	14300.0 1	6660.0 1	3350.0 1	2700.0 1	2070.0 1	1630.0 1	1540.0 1	1070.0 1	565.0 1
1946	6240.0 9	3290.0 13	1670.0 16	988.0 18	727.0 17	535.0 16	440.0 16	469.0 10	387.0 11	215.0 12
1947	7850.0 7	6160.0 5	3210.0 4	1630.0 7	1010.0 8	823.0 6	578.0 7	441.0 13	364.0 12	270.0 7
1948	3120.0 24	1750.0 27	1300.0 22	873.0 20	808.0 11	564.0 12	430.0 20	374.0 18	330.0 14	203.0 15
1949	7690.0 8	3440.0 10	2190.0 9	1190.0 14	942.0 9	680.0 9	576.0 8	556.0 6	498.0 5	264.0 8
1950	13000.0 4	8060.0 3	3850.0 3	1970.0 4	1100.0 7	671.0 10	563.0 9	531.0 8	433.0 8	238.0 10
1951	5480.0 12	3360.0 12	2200.0 8	1290.0 9	798.0 12	462.0 21	374.0 21	354.0 19	295.0 16	155.0 20
1952	3200.0 23	2260.0 20	1230.0 25	775.0 24	475.0 26	442.0 22	363.0 22	309.0 23	242.0 22	143.0 22
1953	3500.0 22	2200.0 23	1280.0 23	760.0 25	640.0 21	549.0 13	435.0 17	332.0 21	223.0 25	114.0 26
1954	9440.0 5	3660.0 9	1780.0 14	898.0 19	466.0 27	249.0 28	173.0 29	137.0 29	94.1 29	47.7 29
1955	3880.0 20	2480.0 17	1250.0 24	678.0 26	516.0 24	400.0 24	354.0 23	309.0 22	235.0 24	120.0 25
1956	1940.0 29	956.0 32	605.0 32	326.0 32	226.0 31	176.0 31	126.0 31	99.1 31	70.4 31	35.8 32
1957	14900.0 3	6310.0 4	3050.0 5	1950.0 6	1680.0 2	1380.0 2	1210.0 2	935.0 2	656.0 3	342.0 4
1958	4030.0 19	2250.0 21	1720.0 15	1140.0 15	795.0 13	634.0 11	541.0 10	493.0 9	424.0 9	272.0 6
1959	5430.0 13	3370.0 11	1830.0 13	1070.0 17	724.0 18	513.0 19	482.0 12	389.0 17	283.0 20	169.0 18
1960	4870.0 14	2240.0 19	1220.0 26	813.0 22	609.0 22	386.0 25	309.0 25	266.0 24	238.0 23	175.0 17
1961	8700.0 6	4080.0 8	2090.0 11	1100.0 16	732.0 15	530.0 17	445.0 15	399.0 15	316.0 15	187.0 16
1962	1950.0 28	1220.0 28	709.0 28	579.0 28	484.0 25	322.0 26	289.0 26	250.0 26	245.0 21	143.0 23
1963	1760.0 30	1110.0 29	664.0 30	370.0 31	200.0 32	113.0 32	85.4 32	70.4 32	68.3 32	45.9 30
1964	4150.0 16	2040.0 24	1180.0 27	626.0 27	346.0 28	276.0 27	203.0 28	155.0 28	107.0 28	54.6 28
1965	1610.0 31	1080.0 30	703.0 29	541.0 29	336.0 29	242.0 29	224.0 27	202.0 27	152.0 27	83.4 27
1966	4150.0 17	2510.0 16	1650.0 17	1240.0 12	782.0 14	488.0 20	433.0 18	391.0 16	291.0 18	148.0 21
1967	1350.0 32	1060.0 31	615.0 31	409.0 30	323.0 30	232.0 30	160.0 30	123.0 30	82.4 30	42.6 31
1968	3110.0 25	2360.0 18	1620.0 18	1270.0 11	941.0 10	684.0 8	692.0 6	600.0 5	485.0 6	259.0 9
1969	2430.0 27	1980.0 26	1320.0 21	810.0 23	580.0 23	530.0 18	477.0 13	449.0 11	403.0 10	234.0 11
1970	2880.0 26	2070.0 25	1450.0 20	1190.0 13	729.0 16	542.0 15	432.0 19	350.0 20	294.0 17	207.0 14
1971	6180.0 10	4300.0 7	2830.0 7	1970.0 5	1200.0 5	709.0 7	517.0 11	444.0 12	351.0 13	209.0 13
1972	4620.0 15	2660.0 15	1990.0 12	1240.0 10	716.0 19	434.0 23	318.0 24	257.0 25	207.0 26	133.0 24
1973	4070.0 18	2800.0 14	2130.0 10	1580.0 8	1120.0 6	1100.0 3	892.0 3	827.0 3	662.0 2	395.0 2
1974	6020.0 11	4560.0 6	2970.0 6	2320.0 3	1480.0 4	897.0 5	693.0 5	610.0 4	528.0 4	394.0 3

## MONTHLY DURATION TABLE

SALLISAW CREEK NEAR SALLISAW, OKLAHOMA

PERIOD 1942-1974

CLASS LIMIT	TOTAL PERCENT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
0.00	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0.05	98.2	97.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	96.1	95.3	93.8	96.2
0.07	98.2	97.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	96.0	95.3	93.8	96.2
0.11	97.6	96.9	99.6	100.0	99.9	100.0	100.0	99.8	97.8	94.8	92.5	93.8	96.2
0.16	97.6	96.9	99.6	100.0	99.9	100.0	100.0	99.8	97.8	94.5	92.5	93.8	96.2
0.24	95.9	96.9	99.1	100.0	99.5	100.0	100.0	96.1	92.1	88.8	89.9	92.9	96.2
0.36	94.9	96.9	99.0	100.0	99.5	100.0	100.0	94.7	86.8	87.4	88.6	90.5	96.2
0.53	93.9	96.9	99.0	100.0	99.5	100.0	100.0	94.4	85.5	84.5	84.4	87.6	96.0
0.79	93.0	96.9	99.0	100.0	99.5	100.0	100.0	94.0	84.1	82.1	82.3	82.2	96.0
1.20	91.1	96.6	98.8	100.0	99.5	100.0	99.9	89.1	80.1	77.6	76.7	80.6	94.9
1.60	89.0	95.4	98.8	100.0	99.5	100.0	99.4	86.8	74.0	72.0	73.5	79.1	90.5
2.00	86.9	94.3	98.7	100.0	99.5	100.0	98.5	83.3	68.3	65.9	70.4	75.6	88.6
3.00	83.6	90.9	98.5	99.5	99.5	100.0	97.6	78.7	61.3	54.4	63.5	73.3	87.1
5.00	80.2	88.8	96.7	97.0	99.5	100.0	95.6	75.0	53.6	48.3	59.8	67.3	82.4
8.00	75.5	84.6	93.7	96.8	98.3	100.0	91.9	67.3	45.8	42.5	49.8	61.6	75.6
13.00	70.6	83.4	91.5	95.1	96.9	99.9	85.6	57.4	36.0	35.8	43.1	56.0	66.4
19.00	64.5	80.8	85.4	92.2	94.4	99.2	79.9	46.1	25.4	28.3	33.7	50.3	60.4
28.00	56.0	76.8	79.9	87.3	89.1	96.0	67.9	37.3	18.5	21.0	25.8	44.2	53.3
42.00	51.3	67.6	72.8	82.1	85.1	89.1	57.9	30.1	12.5	15.8	21.5	36.5	46.4
65.00	44.2	52.2	66.3	75.1	81.7	80.6	45.8	23.4	8.3	11.8	17.7	31.7	38.0
93.00	36.0	40.0	51.4	65.0	73.4	69.5	36.3	16.3	4.9	9.2	13.6	26.4	27.7
140.00	27.1	25.1	35.0	52.7	59.2	55.6	26.4	11.2	3.2	7.1	9.7	20.5	20.4
210.00	19.2	15.1	24.0	39.4	40.3	41.7	19.5	7.5	2.1	5.2	7.4	14.9	14.0
310.00	13.6	9.3	16.6	27.1	30.1	29.0	13.8	4.9	1.2	4.3	5.8	10.4	10.7
460.00	9.4	5.4	10.7	19.9	20.4	20.1	10.0	3.4	0.7	3.2	4.1	7.4	8.1
680.00	6.3	3.2	7.5	13.0	13.6	13.4	6.7	1.9	0.4	2.2	2.7	5.3	5.7
1000.00	4.1	2.0	5.0	8.1	8.8	8.6	4.7	1.3	0.3	1.4	1.9	3.5	4.0
1500.00	2.2	1.1	2.8	4.1	4.4	4.8	2.8	0.9	0.2	0.5	1.0	1.9	1.7
2200.00	1.1	0.5	1.2	2.0	1.6	3.2	1.9	0.5	0.1	0.2	0.3	0.6	0.9
3300.00	0.6	0.3	0.9	0.6	0.7	2.0	0.6	0.3	0.0	0.0	0.2	0.4	0.6
5000.00	0.2	0.0	0.2	0.1	0.4	1.0	0.3	0.1	0.0	0.0	0.1	0.2	0.3
7400.00	0.1	0.0	0.0	0.1	0.3	0.6	0.2	0.0	0.0	0.0	0.0	0.0	0.2
11000.00	0.1	0.0	0.0	0.1	0.2	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0
16000.00	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
24000.00	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0

## STATISTICS OF ANNUAL DISCHARGE FOR WATER YEARS, 1943-74

Units of annual Discharge	Mean	Standard Deviation	Coefficient of Variation	Skew Coefficient	First Order Serial Correlation Coefficient
CFS	197	117	0.59	1.06	0.25
LOGS of CFS	2.210	0.299		-0.712	0.293

## 245

LOCATION.--Lat 35°20'58", long 94°46'16", in SE 1/4 SW 1/4 sec.9, T.10 N., R.24 E., LeFlore County, at downstream right abutment of bridge on U.S. Highway 59, 0.4 mi (0.6 km) downstream from Robert S. Kerr Lock and Dam, 7.5 mi (12.1 km) south of Sallisaw, and at mile 394.9 (635.4 km).

PERIOD OF RECORD.--October 1947 to December 1970. Statistical summaries for this station are divided into unregulated and regulated periods.

REMARKS.--Natural flow of stream affected by storage reservoirs and power development and regulated by Robert S. Kerr Lock and Dam since September 1970.

ARKANSAS RIVER NEAR SALLISAW, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	
YEAR	NUMBER OF DAYS IN CLASS																																		CFS	DAYS
1948	9 30 39 35 35 31 18 28 16 22 11 14 19 12 11 8 17 1 3 5 2																																		1184	2550.0
1949	10 36 52 22 16 18 15 23 23 21 36 28 13 15 16 8 6 1 3																																		1614	8070.0
1950	26 34 35 31 40 39 20 16 25 27 23 13 6 10 12 5 2 1																																		1432	8910.0
1951	3 5 38 54 19 10 26 25 34 28 22 14 17 11 22 11 13 10 3																																		1592	7720.0
1952	20 32 24 11 14 4 8 58 48 44 33 26 22 9 6 6 1																																		8365	080.0
1953	1 5 41 33 57 43 20 15 26 23 20 10 15 16 5 9 10 8 3 4 1																																		3523	415.0
1954	5 2 7 6 15 16 12 24 58 61 44 36 10 11 11 11 2 1 5 1 2 1 1 1																																		2860	299.0
1955	2 9 1 1 6 8 22 28 9 22 38 59 37 26 14 30 12 11 4 8 8 3 1 6																																		4070	260.0
1956	7 12 8 7 1 3 20 43 74 61 55 20 11 18 10 3 4 2 2 1 1 1 1 2 1																																		2012	876.0
1957	3 3 6 8 12 1 4 18 35 14 11 6 7 16 27 7 16 23 17 4 10 4 17 6 4 9 10 14 16 22 9 3 2 1																																		1870	8929.0
1958	7 21 40 46 30 34 24 30 18 25 21 24 23 12 8 2																																		1144	4130.0
1959	1 11 40 38 40 61 34 34 28 16 8 16 15 3 3 11 5 1																																		720	3070.0
1960	1 1 9 14 13 40 47 46 30 41 48 21 14 14 9 10 2 1 2 3																																		1739	8450.0
1961	1 1 9 14 26 24 21 59 35 32 27 27 16 19 14 18 7 6 4																																		1538	4500.0
1962	3 10 9 10 12 16 44 52 59 23 44 38 18 12 11 3 1																																		1175	6610.0
1963	1 4 5 16 36 55 59 50 22 32 39 22 10 8 5 1																																		4440	420.0
1964	4 23 79 49 33 24 42 29 24 11 2 15 8 9 5 3 3 1 2																																		2404	520.0
CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT		
0	0.00	0	6210	100.0	9	1200.00	126	656	97.5	18	1100.0	289	3187	51.3	27	91000	139	423	6.8	27	91000	139	423	6.8	27	91000	139	423	6.8	27	91000	139	423	6.8		
1	182.00	3	6210	100.0	10	1600.00	19	5930	95.5	19	1300.0	484	2818	46.7	28	120000	115	284	4.5	28	120000	115	284	4.5	28	120000	115	284	4.5	28	120000	115	284	4.5		
2	230.00	3	6207	100.0	11	2000.00	218	5749	92.6	20	17000.0	426	2414	38.9	29	150000	72	189	2.7	29	150000	72	189	2.7	29	150000	72	189	2.7	29	150000	72	189	2.7		
3	290.00	6	6204	99.9	12	2500.00	259	5533	89.1	21	22000.0	387	1908	32.0	30	190000	55	97	1.5	30	190000	55	97	1.5	30	190000	55	97	1.5	30	190000	55	97	1.5		
4	370.00	22	6198	99.8	13	3200.00	291	5274	84.9	22	28000.0	252	1401	25.4	31	240000	23	42	.6	31	240000	23	42	.6	31	240000	23	42	.6	31	240000	23	42	.6		
5	470.00	35	6176	99.5	14	4100.00	391	4983	80.2	23	35000.0	312	1349	21.7	32	300000	12	19	.3	32	300000	12	19	.3	32	300000	12	19	.3	32	300000	12	19	.3		
6	600.00	17	6141	98.4	15	5200.00	486	4592	73.9	24	44000.0	288	1037	16.7	33	340000	6	7	.1	33	340000	6	7	.1	33	340000	6	7	.1	33	340000	6	7	.1		
7	760.00	19	6124	98.6	16	6600.00	494	4106	66.1	25	57000.0	189	749	12.1	34	490000	1	1	.0	34	490000	1	1	.0	34	490000	1	1	.0	34	490000	1	1	.0		
8	970.00	49	6105	98.3	17	8300.00	425	3612	58.2	26	72000.0	137	560	9.0																						

## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## ARKANSAS RIVER NEAR SALLISAW, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1949	4690.00 14	5190.00 14	5680.00 14	5760.00 12	5840.00 8	7220.00 9	7860.00 9	7900.00 9	20300.00 13	42800.00 13
1950	4440.00 13	4660.00 12	5050.00 11	5780.00 13	6650.00 11	7600.00 10	9840.00 10	11600.00 12	13800.00 10	34800.00 10
1951	4000.00 11	4000.00 10	4640.00 10	5700.00 11	6360.00 9	6590.00 8	6780.00 8	7390.00 8	17000.00 12	39900.00 11
1952	6830.00 15	7510.00 15	10300.00 15	13300.00 16	15100.00 15	16700.00 14	18400.00 14	23800.00 14	27900.00 14	49100.00 14
1953	1170.00 5	1180.00 5	1200.00 3	1230.00 3	1270.00 3	1620.00 3	1910.00 4	2100.00 4	2340.00 4	11000.00 5
1954	945.00 3	1100.00 3	1200.00 4	1310.00 4	1580.00 4	3050.00 5	3960.00 6	4310.00 6	4350.00 5	4810.00 4
1955	440.00 2	440.00 2	462.00 2	500.00 2	614.00 2	1100.00 2	1660.00 2	1830.00 3	2330.00 3	8500.00 3
1956	1520.00 6	1750.00 6	2110.00 6	2310.00 6	2630.00 6	3330.00 6	5240.00 5	3450.00 5	7100.00 6	11800.00 6
1957	182.00 1	212.00 1	250.00 1	298.00 1	390.00 1	484.00 1	722.00 1	908.00 1	1350.00 1	3640.00 1
1958	4410.00 12	4670.00 13	5200.00 13	5680.00 10	6910.00 12	8920.00 12	10200.00 12	10100.00 10	11700.00 8	59300.00 16
1959	3670.00 10	3830.00 8	4060.00 7	4340.00 7	5090.00 7	5400.00 7	6000.00 7	6210.00 7	6980.00 7	26400.00 8
1960	2870.00 7	3680.00 9	5150.00 12	6210.00 14	8360.00 14	19400.00 15	25000.00 16	28600.00 15	29800.00 15	42300.00 12
1961	2870.00 8	3520.00 7	4530.00 8	5390.00 9	6940.00 13	9040.00 13	11100.00 13	12600.00 13	13300.00 9	28000.00 9
1962	6980.00 16	9340.00 16	11000.00 16	12800.00 15	18800.00 16	24600.00 16	24800.00 15	30700.00 16	41100.00 16	54700.00 15
1963	3320.00 9	4100.00 11	4530.00 9	5190.00 8	6540.00 10	8510.00 11	9890.00 11	10800.00 11	15400.00 11	19500.00 7
1964	1100.00 4	1180.00 4	1360.00 5	1470.00 5	1490.00 4	1630.00 4	1720.00 3	1830.00 2	2160.00 2	5600.00 2

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## ARKANSAS RIVER NEAR SALLISAW, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1948	352000.0 5	307000.0 5	273000.0 4	210000.0 4	153000.0 6	122000.0 3	86900.0 5	70700.0 6	57400.0 6	32400.0 7
1949	360000.0 4	335000.0 4	276000.0 3	212000.0 3	163000.0 4	113000.0 4	88300.0 4	83000.0 3	77300.0 2	44200.0 3
1950	434000.0 2	355000.0 3	234000.0 6	175000.0 6	714100.0 7	102000.0 6	81600.0 6	78800.0 6	62800.0 5	39300.0 6
1951	248000.0 7	239000.0 7	219000.0 7	200000.0 6	184000.0 2	128000.0 2	111000.0 2	89600.0 2	70400.0 3	43600.0 4
1952	122000.0 13	109000.0 13	93600.0 12	88600.0 13	53700.0 11	51500.0 10	42400.0 11	37500.0 10	33100.0 10	22900.0 10
1953	107000.0 14	81500.0 15	61500.0 15	41500.0 15	39700.0 14	30800.0 13	25200.0 13	20400.0 13	16900.0 13	9650.0 14
1954	194000.0 8	165000.0 8	121000.0 10	77500.0 11	46100.0 13	28500.0 14	20500.0 14	16300.0 15	12100.0 15	7840.0 15
1955	104000.0 15	103000.0 14	83600.0 13	73100.0 12	46600.0 12	35500.0 12	26400.0 12	23800.0 12	18200.0 12	11200.0 13
1956	134000.0 12	112000.0 12	73000.0 14	41900.0 14	25100.0 16	14500.0 17	11000.0 17	9090.0 17	7100.0 17	5500.0 17
1957	526000.0 1	482000.0 1	387000.0 1	319000.0 1	269000.0 1	212000.0 1	176000.0 1	143000.0 1	98900.0 1	51300.0 1
1958	151000.0 10	145000.0 9	126000.0 9	104000.0 9	84500.0 8	65900.0 8	53600.0 9	55000.0 8	50800.0 8	31400.0 9
1959	150000.0 11	145000.0 10	132000.0 8	115000.0 8	71500.0 10	42600.0 11	42900.0 10	36700.0 11	30200.0 11	19700.0 11
1960	402000.0 3	393000.0 2	336000.0 2	238000.0 2	162000.0 5	98200.0 7	74400.0 7	64300.0 7	54900.0 7	47500.0 2
1961	298000.0 6	280000.0 6	247000.0 5	206000.0 5	168000.0 3	107000.0 5	88900.0 3	77000.0 5	68500.0 4	42100.0 5
1962	155000.0 9	142000.0 11	111000.0 11	86200.0 10	76800.0 9	61200.0 9	55600.0 8	47100.0 9	40800.0 9	32200.0 8
1963	59200.0 17	55900.0 17	45800.0 17	34200.0 17	29700.0 15	22400.0 15	19600.0 15	17600.0 14	15300.0 14	12200.0 12
1964	88900.0 16	80700.0 16	57000.0 16	37000.0 16	23900.0 17	17300.0 16	14900.0 16	12600.0 16	11000.0 16	6570.0 16

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

## ARKANSAS RIVER NEAR SALLISAW, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34		
YEAR	NUMBER OF DAYS IN CLASS																																		CFS-DAYS		
1965						6	4	5	11	9	1			3	7	7	14	16	20	37	28	25	51	13	10	9	7	13	7	7	15	12	8	14	4	2	7944210,0
1966												2	4	7	13	11	51	36	47	45	34	28	21	11	21	10	6	6	2	3							4044800,0
1967						6	7	13	20	41	14	14	22	22	27	22	18	14	17	8	11	19	5	6	12	18	10	2	5	2	4	6				4074320,0	
1968												1	1	1	5	9	21	29	46	32	34	9	4	27	22	11	11	13	19	12	10	6				10301650,0	
1969												2	1	2	1	6	18	5	15	17	13	14	32	13	23	22	20	34	28	31	28	19	3			15579400,0	
1970											1	2	1	3	8	13	8	23	31	17	30	51	29	30	22	11	12	16	14	14	3	5	5	18	3	9206430,0	

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	2191	100.0	9	2300.00	52	2119	96.7	18	9000.0	169	1584	72.3	27	36000	60	438	19.9					
1	680.00	0	2191	100.0	10	2700.00	20	2067	94.3	19	11000.0	104	1415	64.6	28	41000	60	378	17.2					
2	790.00	0	2191	100.0	11	3100.00	23	2047	93.4	20	12000.0	158	1511	59.8	29	48000	78	318	14.5					
3	920.00	0	2191	100.0	12	3600.00	40	2024	92.4	21	14000.0	205	1173	53.5	30	56000	66	240	10.9					
4	1100.00	0	2191	100.0	13	4200.00	44	1984	90.6	22	17000.0	98	968	44.2	31	65000	62	174	7.9					
5	1200.00	12	2191	100.0	14	4900.00	76	1940	88.5	23	19000.0	115	870	39.7	32	76000	57	112	5.1					
6	1500.00	11	2179	99.5	15	5700.00	86	1864	85.1	24	22000.0	129	755	34.5	33	88000	47	55	2.5					
7	1700.00	18	2168	99.0	16	6700.00	95	1778	81.2	25	26000.0	82	626	28.6	34	100000	8	8	.3					
8	2000.00	31	2150	98.1	17	7800.00	99	1683	76.8	26	30000.0	106	544	24.8										

## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## ARKANSAS RIVER NEAR SALLISAW, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1966	2410.00 3	5120.00 3	4020.00 3	4270.00 2	4920.00 2	5750.00 2	6430.00 2	7090.00 2	10100.00 2	20500.00 2
1967	1230.00 1	1340.00 1	1630.00 1	1820.00 1	2120.00 1	2340.00 1	2490.00 1	2890.00 1	3860.00 1	8100.00 1
1968	1790.00 2	2110.00 2	2270.00 2	4360.00 3	6480.00 3	8350.00 3	11400.00 3	16500.00 3	16700.00 4	21800.00 3
1969	4790.00 5	6650.00 5	8520.00 5	8780.00 5	9400.00 5	11500.00 5	14100.00 5	14900.00 4	21200.00 5	34300.00 5
1970	3710.00 4	6050.00 4	7700.00 4	8580.00 4	9160.00 4	9890.00 4	11900.00 4	12900.00 3	16300.00 3	32100.00 4

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## ARKANSAS RIVER NEAR SALLISAW, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1965	107000.0 1	103000.0 1	95000.0 3	80200.0 3	54600.0 4	38100.0 4	40900.0 4	36600.0 4	31100.0 4	21800.0 4
1966	46900.0 6	43400.0 6	37300.0 6	30100.0 6	24100.0 6	19500.0 6	15500.0 6	14700.0 6	13000.0 6	11100.0 6
1967	75000.0 5	71700.0 5	66200.0 5	60800.0 5	46000.0 5	35800.0 5	27200.0 5	23800.0 5	18500.0 5	11200.0 5
1968	98500.0 4	95800.0 4	92200.0 4	79500.0 4	64000.0 4	52800.0 4	53200.0 3	47300.0 2	39400.0 2	28100.0 2
1969	107000.0 2	103000.0 2	96200.0 2	86000.0 2	79100.0 2	74500.0 2	71000.0 1	68100.0 1	60300.0 1	42700.0 1
1970	107000.0 3	102000.0 3	99000.0 1	98100.0 1	91000.0 1	85300.0 2	56400.0 2	46900.0 3	34800.0 3	25400.0 3



## ARKANSAS RIVER BASIN

247

07247000 POTEAU RIVER AT CAUTHRON, ARK.

LOCATION.--Lat 34°55'08", long 94°17'55", in NW 1/4 SW 1/r sec.16, T.3 N., R.31 W., Scott County, on right bank at downstream side of highway bridge at Cauthron, 2.9 mi (4.7 km) downstream from Cress Creek, 7.8 mi (12.6 km) downstream from Jones Creek, and at mile 109.0 (175.4 km).

DRAINAGE AREA.--203 mi<sup>2</sup> (526 km<sup>2</sup>).

PERIOD OF RECORD.--February 1939 to September 1974.

AVERAGE DISCHARGE.--35 years (1940-74), 218 ft<sup>3</sup>/s (6.17 m<sup>3</sup>/s).

REMARKS.--As of September 1973, flow from 74.8 mi<sup>2</sup> (120 km<sup>2</sup>) above this station is controlled by 12 floodwater detention reservoirs.

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

POTEAU RIVER AT CAUTHRON, ARKANSAS

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34			
YEAR	NUMBER OF DAYS IN CLASS																																			CFS_DAYS		
1940	9						1	5	1	9	12	21	39	39	34	24	41	36	25	14	15	12	8	10	5	2	2	2									18240.9	
1941	3						10	6	8	3	15	5	15	23	17	16	19	20	28	28	25	28	25	26	16	15	13	1									49295.3	
1942										1	5	5	9	10	14	16	20	19	22	29	33	45	43	31	26	14	9	9	2	1	2						92368.5	
1943	54						10	12	6	2	10	5	6	3	3	4	42	33	29	31	26	24	14	22	6	8	1	1	3	1	2						59224.3	
1944	7						3	4	3	4	14	13	19	13	30	18	15	11	19	19	27	33	41	25	16	10	7	8	3	2	2						80150.6	
1945	13						6	9	14		4	13	6	7	25	24	15	19	30	27	29	23	22	19	10	14	9	9	3	4	3	4					196372.9	
1946	27						10	5	6	1	2	5	7	4	10	15	5	23	44	35	33	30	24	27	13	11	11	4	6	6	1						96961.2	
1947	48						8	8	9	3	3	5	11	7	16	9	12	24	20	33	41	36	19	16	13	6	8	1	5	1	1	2					79942.4	
1948							5	7	7	11	13	17	13	23	16	25	29	34	32	35	21	17	18	16	6	6	7	3	4					1			78819.5	
1949	13						13	14	24	4	8	11	8	6	17	18	24	9	18	25	34	32	22	25	12	4	10	4	3	4	1		2				106930.6	
1950											7	2	11	27	26	19	22	31	30	42	31	26	23	22	12	11	5	6	7	3	1	1					141421.8	
1951													3	20	36	48	40	38	24	21	22	28	25	18	15	4	10	4	5	2	2					47276.8		
1952	46						14	18	8	1	3	18	10	8	8	3	7	8	22	28	31	28	32	30	13	10	5	5	2	6			2				88386.0	
1953	27						6	4	3	11	10	10	10	6	8	8	7	10	12	17	14	24	39	25	15	14	7	6	4	2	3	3					112364.4	
1954	96						17	8	7	9	10	16	25	15	7	29	13	18	18	14	12	13	13	7	9	4		3	1				1				30638.3	
1955	42						23	9	10	5	6	7	19	16	21	11	17	14	19	19	33	23	26	16	8	9	3	3	4	1	1						51402.6	
1956	190						18	6	4	3	3	6	8	7	7	7	16	13	20	12	13	10	12	5	3	1				1	1						16001.1	
1957	55						1	1	1	6	5	14	14	13	8	13	13	14	15	16	13	29	27	25	29	17	12	11	7	6	5	1				144989.9		
1958										1	2	6	9	10	21	15	22	20	33	36	34	36	33	24	13	11	10	3	2	1	2						104318.0	
1959							3	2	11	15	11	10	19	29	15	19	22	15	33	50	40	25	14	13	6	5	2	3	3								35737.5	
1960							8	4	10	10	6	22	14	13	32	19	13	23	34	24	26	34	27	16	8	11	5	3	1	1			1	1			101658.9	
1961							4	5	21	4	3	2	2	11	22	18	17	12	41	28	34	26	39	32	15	11	5	6	4			3					78417.0	
1962	5						1	2	1	2	3	5	14	22	22	19	21	28	22	29	44	31	27	25	15	13	4	5	1	3	1						65537.8	
1963	33						12	7	8	11	6	7	4	7	12	26	47	27	32	41	20	18	25	7	7	6		2									23727.8	
1964	147						35	4	8	2	8	5	4	14	11	10	10	12	21	23	17	7	11	6	1	3	3	1	2			1					25099.5	
1965							1	4	8	3	10	9	30	19	12	8	12	31	42	18	37	34	24	20	15	8	6	5	3	3	3						81108.2	
1966										2	11	12	7	30	56	36	25	35	27	23	30	21	14	11	5	4	5	3	3	2			3				44995.8	
1967	4						19	10	9	15	14	27	36	30	16	32	34	18	19	10	9	12	12	9	6	9	2	4	2			2					38360.8	
1968									1	6	2	4	8	13	13	15	16	19	24	20	41	43	24	25	26	12	13	13	14	6	3	4	2	1			152391.9	
1969												11	20	20	14	12	14	20	25	34	50	38	28	20	17	12	9	7	4	4	3	3					125129.0	
1970										22	8	22	19	15	12	22	20	16	27	21	27	25	27	26	17	11	13	4	6	2			1				53545.3	
1971									1	3	11	3	3	18	25	15	20	23	24	28	24	46	45	36	15	12	8	4			1						37955.1	
1972		1	2				1	3	5	10	17	30	27	14	18	12	16	23	29	26	33	25	18	15	7	12	7	6	2	1				1	1	1		63118.4
1973				2	1	1	3	5		4	3	4		4	6	11	14	11	5	8	4	26	36	28	42	47	36	24	15	12	10	5	3				154325.1	
1974													10	9	10	15	14	7	13	21	38	53	55	34	31	13	18	10	7	3	1	2		1				101286.6

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	885	12784	100.0	9	0.50	184	11277	88.2	18	24.0	837	6826	53.4	27	1300	176	444	3.4
1	0.01	2	11899	93.1	10	0.70	268	11093	86.8	19	37.0	953	5989	46.8	28	2000	111	268	2.0
2	0.02	0	11897	93.1	11	1.10	325	10825	84.7	20	58.0	1042	5036	39.4	29	3000	70	157	1.2
3	0.03	2	11897	93.1	12	1.70	517	10500	82.1	21	90.0	935	3994	31.2	30	4700	51	87	.6
4	0.05	1	11895	93.0	13	2.70	558	9963	78.1	22	140.0	868	3059	23.9	31	7300	23	36	.2
5	0.07	4	11894	93.0	14	4.10	595	9425	73.7	23	220.0	708	2191	17.1	32	11000	12	13	.1
6	0.10	222	11890	93.0	15	6.40	612	8830	69.1	24	340.0	469	1483	11.6	33	18000	1	1	
7	0.20	163	11668	91.3	16	10.00	698	8218	64.3	25	520.0	339	1014	7.9	34				
8	0.50	228	11505	90.0	17	16.00	694	7520	58.8	26	810.0	231	675	5.3					

## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## POTEAU RIVER AT CAUTHRON, ARKANSAS

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1940	0.00 1	0.00 1	0.00 1	0.01 11	0.08 11	0.35 11	0.59 8	3.20 11	3.52 5	120.00 6
1941	0.00 2	0.00 2	0.06 17	0.14 17	0.22 15	1.53 17	11.90 29	34.50 29	32.60 19	130.00 8
1942	0.60 29	0.80 30	1.21 32	2.25 31	5.27 31	8.01 29	7.74 19	45.20 32	94.70 31	218.00 18
1943	0.10 19	0.10 19	0.10 19	0.14 18	0.36 18	0.97 30	10.30 24	9.49 18	25.20 16	127.00 7
1944	0.00 3	0.00 3	0.00 2	0.00 1	0.00 1	0.00 1	0.17 7	1.98 8	10.10 8	249.00 23
1945	0.00 4	0.00 4	0.00 3	0.01 12	0.11 12	0.51 14	7.53 18	7.00 14	38.00 21	426.00 34
1946	0.30 27	0.30 26	0.64 27	1.26 29	5.45 32	9.71 31	28.30 33	92.00 34	77.40 28	330.00 31
1947	0.00 5	0.00 5	0.00 4	0.00 2	0.00 2	0.04 9	0.61 10	2.60 10	123.00 33	296.00 29
1948	0.00 6	0.00 6	0.00 5	0.00 3	0.02 10	0.49 13	4.19 16	13.20 21	13.30 10	224.00 19
1949	0.10 20	0.10 20	0.10 20	0.13 16	0.33 16	3.89 22	11.00 27	11.80 19	21.90 14	288.00 27
1950	0.00 7	0.00 7	0.00 6	0.01 13	0.18 14	0.45 12	3.22 14	7.55 16	19.20 13	277.00 26
1951	2.40 34	2.47 34	2.73 34	3.09 33	3.71 28	4.48 23	10.80 25	17.30 24	66.80 26	240.00 21
1952	1.20 32	1.20 32	1.20 31	1.24 28	4.97 30	6.89 26	9.45 21	35.90 30	82.10 29	188.00 16
1953	0.00 8	0.00 8	0.00 7	0.00 4	0.00 3	0.00 2	0.01 5	0.10 4	9.40 7	275.00 25
1954	0.00 9	0.00 9	0.00 8	0.00 5	0.00 4	0.03 6	0.08 6	0.65 6	1.61 4	177.00 14
1955	0.00 10	0.00 10	0.00 9	0.00 6	0.00 5	0.00 3	0.00 1	0.41 5	13.50 12	172.00 12
1956	0.00 11	0.00 11	0.00 10	0.00 7	0.00 6	0.00 4	0.00 2	0.00 1	0.06 2	54.60 2
1957	0.00 12	0.00 12	0.00 11	0.00 8	0.00 7	0.00 5	0.00 3	0.01 2	0.67 3	105.00 5
1958	0.00 13	0.00 13	0.09 18	0.56 24	1.25 22	17.00 32	87.60 35	124.00 35	153.00 34	434.00 35
1959	0.60 30	0.80 31	1.16 30	2.30 32	2.94 27	7.48 27	14.10 30	18.60 25	53.00 24	227.00 20
1960	0.10 21	0.13 22	0.26 23	0.38 21	1.38 23	3.60 21	6.83 17	6.73 13	31.10 18	172.00 13
1961	0.10 22	0.10 21	0.14 21	0.20 19	0.35 17	1.34 16	1.41 12	3.42 12	13.30 11	245.00 22
1962	3.20 35	3.67 35	3.79 35	4.51 35	13.70 35	21.70 34	27.60 32	37.00 31	117.00 32	257.00 24
1963	0.00 14	0.00 14	0.04 15	0.37 20	9.90 34	20.00 33	26.30 31	24.80 27	44.80 22	83.30 4
1964	0.00 15	0.00 15	0.00 12	0.00 9	0.00 8	0.00 6	0.00 4	0.03 3	0.05 1	38.70 1
1965	0.00 16	0.00 16	0.00 13	0.00 10	0.00 9	0.01 7	0.71 11	8.05 17	27.60 17	185.00 15
1966	0.10 23	0.17 23	0.21 22	0.64 26	1.57 24	3.49 20	11.20 28	27.20 28	55.10 25	135.00 9
1967	0.00 17	0.00 17	0.06 16	0.07 14	0.11 13	0.30 10	0.60 9	1.15 7	4.59 6	68.80 3
1968	0.20 24	0.27 24	0.30 24	0.56 25	4.80 29	7.81 28	10.10 23	19.10 26	87.00 30	332.00 32
1969	1.20 33	1.30 33	1.70 33	2.15 30	2.63 25	6.04 24	8.23 20	16.80 23	37.50 20	393.00 33
1970	0.60 31	0.67 29	0.80 28	0.94 27	2.80 26	6.52 25	10.80 26	15.30 22	67.40 27	210.00 17
1971	0.30 28	0.30 25	0.31 25	0.49 22	0.54 20	2.30 19	3.79 15	7.51 15	45.60 23	149.00 10
1972	0.29 25	0.34 27	0.44 26	0.52 23	0.94 21	2.10 18	9.72 22	12.00 20	22.00 15	159.00 11
1973	0.00 18	0.01 18	0.03 14	0.12 15	0.43 19	0.69 15	2.59 13	2.54 9	12.60 9	298.00 30
1974	0.30 26	0.43 28	0.98 29	3.55 34	9.12 33	25.60 35	42.60 34	72.20 33	160.00 35	290.00 28

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## POTEAU RIVER AT CAUTHRON, ARKANSAS

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1940	1730.0 33	807.0 35	501.0 35	364.0 35	307.0 34	182.0 34	128.0 35	108.0 35	88.9 34	49.9 34
1941	1540.0 35	908.0 33	644.0 33	417.0 32	344.0 32	295.0 29	292.0 28	258.0 28	234.0 27	135.0 25
1942	7230.0 17	3200.0 23	1550.0 25	762.0 27	639.0 26	444.0 25	417.0 23	385.0 22	367.0 17	253.0 13
1943	9110.0 11	5340.0 12	2680.0 12	2220.0 9	1230.0 12	691.0 16	541.0 17	414.0 17	303.0 22	162.0 22
1944	5390.0 23	3400.0 22	1740.0 23	1170.0 21	815.0 21	691.0 17	668.0 10	553.0 11	421.0 13	219.0 16
1945	16000.0 4	8570.0 5	4280.0 4	3410.0 1	2480.0 1	1940.0 1	1640.0 1	1410.0 1	993.0 1	538.0 1
1946	5830.0 22	3400.0 20	1960.0 21	1460.0 16	1120.0 15	799.0 11	589.0 15	581.0 10	490.0 11	266.0 12
1947	10900.0 9	8850.0 4	4130.0 6	1980.0 11	1290.0 10	863.0 10	602.0 14	458.0 16	385.0 16	219.0 17
1948	11400.0 8	5550.0 11	2560.0 14	1300.0 18	895.0 18	642.0 18	606.0 13	512.0 14	410.0 14	215.0 18
1949	17600.0 2	12900.0 1	6240.0 1	3330.0 2	2120.0 2	1220.0 5	950.0 4	790.0 4	569.0 7	293.0 9
1950	13400.0 6	6750.0 8	3080.0 9	2270.0 8	1490.0 6	1260.0 4	869.0 7	701.0 7	609.0 5	387.0 5
1951	4270.0 29	2660.0 27	2390.0 16	1290.0 19	747.0 22	429.0 26	360.0 27	307.0 26	245.0 25	130.0 26
1952	7820.0 16	4280.0 17	2330.0 17	2020.0 10	1220.0 13	864.0 9	613.0 12	551.0 12	463.0 12	241.0 14
1953	9020.0 12	4700.0 14	2670.0 13	1650.0 15	1310.0 8	1080.0 7	870.0 6	736.0 6	608.0 6	308.0 7
1954	8000.0 15	3730.0 19	1740.0 22	912.0 25	527.0 28	284.0 30	237.0 30	245.0 29	167.0 31	83.9 31
1955	5120.0 25	3240.0 21	1990.0 20	1120.0 23	830.0 20	558.0 21	459.0 20	387.0 21	271.0 24	141.0 24
1956	4150.0 30	2510.0 28	1270.0 30	666.0 30	392.0 31	235.0 32	167.0 33	133.0 33	87.4 35	43.7 35
1957	8060.0 14	4980.0 13	3950.0 8	2430.0 5	1680.0 3	1360.0 2	1140.0 2	909.0 3	701.0 3	397.0 4
1958	8120.0 13	5870.0 10	2840.0 11	1870.0 12	1230.0 11	917.0 8	740.0 8	626.0 8	496.0 10	297.0 8
1959	2670.0 31	1240.0 31	924.0 31	746.0 26	520.0 29	360.0 28	271.0 29	221.0 30	185.0 29	97.9 30
1960	19300.0 1	12400.0 2	5470.0 2	2610.0 4	1530.0 4	796.0 13	640.0 11	533.0 13	512.0 8	278.0 10
1961	7220.0 18	3000.0 24	1430.0 26	891.0 26	530.0 27	455.0 23	434.0 21	368.0 23	327.0 21	215.0 19
1962	4830.0 27	2970.0 25	1370.0 27	740.0 29	687.0 25	447.0 24	416.0 24	401.0 19	329.0 20	180.0 20
1963	1720.0 34	876.0 34	552.0 34	392.0 33	314.0 33	182.0 35	160.0 34	111.0 34	110.0 33	65.0 33
1964	5250.0 24	2820.0 26	1310.0 29	648.0 31	412.0 30	255.0 31	227.0 31	174.0 32	116.0 32	68.6 32
1965	7090.0 19	4430.0 15	2230.0 18	1110.0 24	843.0 19	633.0 19	490.0 19	407.0 18	342.0 18	222.0 15
1966	6700.0 20	4390.0 16	2080.0 19	1260.0 20	726.0 24	374.0 27	413.0 25	337.0 25	235.0 26	123.0 27
1967	4610.0 28	2350.0 30	1350.0 28	1130.0 22	914.0 16	571.0 20	397.0 26	302.0 27	205.0 28	105.0 28
1968	14500.0 5	8950.0 3	4950.0 3	2760.0 3	1520.0 5	1360.0 3	1060.0 3	930.0 2	741.0 2	416.0 3
1969	9770.0 10	6190.0 9	3070.0 10	1680.0 14	915.0 17	778.0 14	740.0 9	606.0 9	508.0 9	343.0 6
1970	4900.0 26	2460.0 29	1650.0 24	1320.0 17	730.0 23	536.0 22	425.0 22	360.0 24	273.0 23	147.0 23
1971	2060.0 32	1060.0 32	689.0 32	373.0 34	271.0 35	224.0 33	209.0 32	195.0 31	175.0 30	104.0 29
1972	16700.0 3	7920.0 6	4120.0 7	2340.0 7	1340.0 7	724.0 15	500.0 18	388.0 20	329.0 19	172.0 21
1973	6310.0 21	4080.0 18	2430.0 15	1790.0 13	1220.0 14	1150.0 6	887.0 5	783.0 5	691.0 4	423.0 2
1974	12000.0 7	7480.0 7	4270.0 5	2350.0 6	1300.0 9	798.0 12	565.0 16	470.0 15	392.0 15	278.0 11

STATION\_NUMBER 07247000

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## MONTHLY DURATION TABLE

POTEAU RIVER AT CAUTHRON, ARKANSAS

PERIOD 1939-1974

CLASS LIMIT	TOTAL PERCENT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
0.00	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0.01	93.1	97.1	100.0	100.0	100.0	100.0	99.5	93.2	83.2	78.8	82.1	89.7	94.4
0.02	93.1	97.1	100.0	100.0	100.0	100.0	99.5	93.2	83.2	78.8	82.1	89.7	94.4
0.03	93.1	97.1	100.0	100.0	100.0	100.0	99.5	93.2	83.2	78.8	82.1	89.7	94.4
0.05	93.1	97.1	100.0	100.0	100.0	100.0	99.5	93.2	83.1	78.6	82.1	89.7	94.4
0.08	93.1	97.1	100.0	100.0	100.0	100.0	99.5	93.2	83.0	78.6	82.1	89.7	94.4
0.12	91.4	94.7	100.0	100.0	100.0	100.0	98.6	90.3	78.3	76.8	76.7	87.4	94.3
0.19	91.3	94.7	100.0	100.0	100.0	100.0	98.6	90.3	78.1	76.8	76.5	87.4	94.3
0.30	90.0	94.4	100.0	100.0	100.0	100.0	97.7	89.0	74.3	73.6	71.5	86.5	94.3
0.46	88.2	94.3	99.6	100.0	100.0	100.0	96.9	85.5	69.0	68.3	66.9	84.4	94.2
0.71	86.2	94.3	99.6	100.0	100.0	100.0	95.6	80.4	62.8	63.2	62.2	83.4	93.5
1.10	84.4	94.1	99.6	100.0	100.0	100.0	92.2	76.2	59.0	59.9	58.1	81.9	92.6
1.70	81.8	92.3	99.6	100.0	100.0	100.0	89.4	69.4	53.4	53.8	52.6	80.5	91.8
2.70	77.7	91.2	99.6	99.7	100.0	99.7	84.7	59.1	44.4	44.8	47.8	77.3	86.5
4.20	73.2	90.1	97.8	99.3	100.0	98.1	78.9	48.9	35.9	37.0	41.9	72.1	80.5
6.40	68.8	88.8	96.7	99.3	100.0	95.8	70.8	39.4	29.3	30.0	37.6	63.7	77.1
10.00	64.1	87.7	94.7	97.8	97.9	91.8	62.0	30.1	23.4	24.2	32.0	55.6	74.7
16.00	58.7	84.9	89.5	94.1	94.6	85.1	52.1	22.2	17.4	20.0	26.8	48.9	71.8
24.00	53.3	80.4	85.1	89.8	89.4	78.5	41.9	18.3	12.7	16.5	21.8	42.5	66.0
37.00	46.7	73.1	78.4	83.9	79.9	68.1	33.1	14.4	9.1	13.5	17.4	34.1	58.2
58.00	39.2	60.5	69.1	75.1	68.5	57.7	27.5	10.5	7.0	10.5	13.2	27.0	46.7
90.00	31.1	47.4	54.6	63.6	56.0	47.1	21.5	6.8	4.9	7.5	10.0	20.8	35.0
140.00	23.6	35.2	43.1	50.0	44.1	36.8	16.0	5.2	3.4	5.4	7.0	16.1	26.8
220.00	17.1	22.6	29.9	35.6	33.5	26.3	12.1	3.7	2.2	3.5	4.5	11.7	20.1
340.00	11.5	14.4	19.1	24.0	23.4	18.6	8.5	2.3	1.3	2.3	3.0	8.0	13.5
520.00	7.9	9.3	12.3	16.1	16.1	13.0	6.5	1.8	0.8	1.9	1.9	5.6	9.6
810.00	5.3	6.7	7.7	10.5	10.6	9.3	3.5	1.4	0.7	1.1	1.2	3.8	6.6
1300.00	3.5	3.6	5.5	7.0	7.4	6.7	2.7	1.1	0.3	0.6	0.6	2.2	3.9
2000.00	2.1	2.3	3.6	4.9	4.2	4.2	1.3	0.5	0.2	0.5	0.5	1.8	2.2
3000.00	1.2	1.1	2.3	3.9	2.5	2.7	0.9	0.4	0.2	0.3	0.4	1.0	1.3
4700.00	0.7	0.6	1.2	0.8	1.6	1.7	0.5	0.3	0.1	0.1	0.3	0.5	0.8
7300.00	0.3	0.5	0.3	0.4	0.6	1.0	0.3	0.2	0.0	0.0	0.0	0.1	0.3
11000.00	0.1	0.3	0.2	0.2	0.1	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.1
18000.00	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0

## STATISTICS OF ANNUAL DISCHARGE FOR WATER YEARS, 1940-74

nits of annual Discharge	Mean	Standard Deviation	Coefficient of Variation	Skew Coefficient	First Order Serial Correlation Coefficient
CFS	218	121	0.55	0.66	0.10
LOGS of CFS	2.263	0.274		-0.534	0.117

## ARKANSAS RIVER BASIN

07247500 FOURCHE MALINE NEAR RED OAK, OKLA.

LOCATION.--Lat 34°54'44", long 95°09'20", in NW 1/4 NW 1/4 sec.13, T.5 N., R.20 E., Latimer County, on downstream side of left abutment of county road bridge, 0.1 mi (0.2 km) downstream from Little Fourche Maline, 5.0 mi (8.0 km) southwest of Red Oak, and at mile 41.2 (66.3 km).

DRAINAGE AREA.--122 mi<sup>2</sup> (316 km<sup>2</sup>).

PERIOD OF RECORD.--October 1938 to September 1974.

AVERAGE DISCHARGE.--36 years (1939-74), 130 ft<sup>3</sup>/s (3.68 m<sup>3</sup>/s).

REMARKS.--Some regulation by several flood retarding structures.

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

## FOURCHE MALINE NEAR RED OAK, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34		
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS		
1939	85										47			8	34	18	28	48	14	11	10	11	5	33	6	2	3			2					16272.0		
1940	25									12	4	14	25	55	27	40	30	26	22	20	13	12	20	7	3	5	2			2	1	1				16195.5	
1941	15						7	18	13	5	15	12	20	12	16	21	29	19	23	29	36	21	14	13	5	10	7	1	3	1						33408.5	
1942							2		2	4	6	11	14	26	16	30	35	53	39	41	24	19	18	4	7	7	2	3	1				1			67676.4	
1943	54						2	4	6	15	21	6	5	3	12	32	32	30	38	27	21	14	11	7	9	4	4		1			2			53355.0		
1944	40						8	4	13	6	11	6	5	11	10	9	16	24	18	34	36	30	23	19	13	14	6	5	3		2					48889.0	
1945	48						14	9	11	8	9	12	25	20	13	12	16	12	15	10	11	17	18	17	14	19	6	7	10	6	3	1	2			115586.0	
1946	45						6	2	7	7	4	4	2	11	33	31	29	26	39	21	19	18	22	6	5	11	5	6	3	3						42980.9	
1947	69						2	8	11	9	9	4	3	2	20	27	17	20	32	24	22	18	14	10	10	7	5	6	5	4	1	2				66467.7	
1948	42						8	9	7	14	18	7	11	15	20	18	31	24	29	17	18	19	16	16	10	8	3	4	2							30855.4	
1949	69						12	25	27	12	18	9	7	9	5	10	10	20	20	24	13	19	11	10	9	7	7	7	3	2						39304.3	
1950							1	5	7				44	17	26	20	23	28	28	30	19	27	22	19	16	9	4	7	6	4	1	1	1			80217.7	
1951							4	3	7	2			6	47	35	41	25	49	28	26	17	16	12	12	9	2	5	6	6	3	3	1				41469.1	
1952	32						22	10	11	11	7	3	8	8	12	12	37	34	35	22	23	30	14	12	8	3	7	1	2							32053.7	
1953	54						15	13	11	7	9	3	10	16	22	22	25	19	19	24	22	14	10	14	12	6	2	6	3	2	4	1				61123.8	
1954	81						20	9	12	4	8	6	24	10	30	35	38	25	23	11	6	6	4	6	2	2	2	1								9387.9	
1955	67						11	18	13	6	7	16	3	8	10	17	19	29	29	27	33	21	7	8	5	1	4	1	4	1						25717.7	
1956	77						44	24	16	24	7	8	9	10	31	28	21	21	11	12	6	5	2	5	2	1	1	1								6715.1	
1957	115						7	4	8	5	8	7	16	9	7	6	6	7	11	16	11	20	21	19	15	14	11	10	6	2	2	1	1			43331.9	
1958												5	11	18	24	15	19	37	36	43	38	33	25	19	18	9	7	3		2					49905.3		
1959							6	16	10	10	16	17	17	17	20	39	55	36	29	22	15	7	11	7	5	3		5	1			1				35699.9	
1960							1	6	4	3	5	6	7	25	17	25	28	28	24	29	37	45	13	18	15	8	3	7	7	1			2	1	1		93434.1
1961							2	4	17	12	15	26	22	20	19	28	38	23	27	34	27	14	12	7	7	6	2	3								30435.1	
1962							7	5	13	7	7	5	9	12	16	17	32	36	36	37	28	30	20	14	16	3	5	5	2	1	2					46546.1	
1963	77						14	7	8	3	6	2	8	4	15	24	35	27	38	30	17	17	9	9	6	2	3	4								19582.1	
1964	171						5	5	8	3	5	11	13	15	14	15	14	12	16	15	8	8	5	6	6	4	2	3		2						20219.1	
1965	12						9	1	15	7	17	15	11	14	21	33	40	20	30	36	30	21	11	3	4	8	3	2	1			1				25053.8	
1966	2	4	3	9	6	15	3	19	24	34	13	51	31	23	14	26	23	16	5	5	7	4	6	3	5	6	2	3	2				1			33507.4	
1967	24	2	5	7	5	1	13	3	11	22	39	29	27	26	31	15	14	8	14	13	11	8	4	8	5	2	8	5							21034.0		
1968							2	2	4	3	8	18	36	27	21	15	49	39	24	27	16	16	11	13	21	7	4					3				67168.5	
1969	1		2	1	6	5	4	11	14	25	6	13	8	5	5	12	20	21	36	48	26	18	18	12	15	12	11	8	2							69335.4	
1970	15						16	4	13	4	9	3	8	17	25	23	37	24	29	24	39	15	12	8	8	9	9	5	1							48840.6	
1971							1	5	3	1	3	9	10	11	21	45	77	49	42	27	13	9	9	9	12	6	2	1								44653.0	
1972							5	4	1	8	30	32	14	11	13	22	26	49	28	25	28	23	8	8	6	12	5	6	1				1			52286.8	
1973											8	15	17	22	13	9	19	22	18	25	58	33	25	13	18	27	17	4				1				87487.7	
1974											1	15	14	23	11	21	17	14	34	44	34	25	20	22	18	12	14	14	7	3			2			88825.1	

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	1219	13149	100.0	9	0.50	268	11085	84.3	18	21.0	1007	5769	43.9	27	970	184	400	3.0
1	0.01	7	11930	90.7	10	0.70	406	10817	82.3	19	32.0	932	4762	36.2	28	1500	116	216	1.6
2	0.02	8	11923	90.7	11	1.10	321	10411	79.2	20	49.0	826	3830	29.1	29	2300	53	107	.7
3	0.03	18	11915	90.6	12	1.60	581	10090	76.7	21	75.0	798	3004	22.8	30	3500	25	47	.3
4	0.05	12	11897	90.5	13	2.50	549	9509	72.3	22	120.0	540	2206	16.8	31	5300	13	22	.1
5	0.08	7	11885	90.4	14	3.80	690	8960	68.1	23	180.0	434	1666	12.7	32	8100	7	9	.0
6	0.10	267	11878	90.3	15	5.90	721	8270	62.9	24	270.0	328	1232	9.4	33	12000	2	2	.0
7	0.20	211	11611	88.3	16	9.00	868	7549	57.4	25	410.0	264	904	6.9	34				
8	0.30	315	11400	86.7	17	14.00	892	6661	50.7	26	630.0	240	640	4.9					

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## FOURCHE MALINE NEAR RED OAK, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1940	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.16 6	0.92 9	1.72 7	25.40 2
1941	0.00 2	0.00 2	0.00 2	0.11 18	0.25 16	0.95 16	5.47 22	9.32 17	20.60 14	97.60 12
1942	0.00 3	0.00 3	0.09 21	0.14 19	0.32 19	2.78 22	7.79 24	11.20 19	57.20 29	129.00 19
1943	0.40 31	0.47 32	0.49 31	0.56 29	0.67 21	9.81 30	12.40 26	37.70 33	48.00 25	158.00 23
1944	0.00 4	0.00 4	0.00 3	0.00 2	0.00 2	0.04 8	1.85 16	7.84 16	23.40 15	167.00 27
1945	0.00 5	0.00 5	0.00 4	0.00 3	0.00 3	0.00 2	0.05 5	0.10 3	0.48 2	195.00 29
1946	0.10 23	0.13 24	0.14 22	0.19 21	0.89 24	7.57 25	12.70 27	50.50 35	45.90 23	229.00 33
1947	0.00 6	0.00 6	0.00 5	0.00 4	0.00 4	0.00 3	0.33 8	0.65 7	62.30 31	142.00 20
1948	0.00 7	0.00 7	0.00 6	0.00 5	0.00 5	0.16 12	0.45 11	1.43 11	5.21 9	163.00 25
1949	0.00 8	0.00 8	0.00 7	0.00 6	0.00 6	0.00 4	0.01 3	0.63 6	1.27 6	80.70 8
1950	0.00 9	0.00 9	0.00 8	0.07 17	0.20 15	3.28 23	4.73 21	4.67 14	6.09 11	97.10 11
1951	1.30 33	1.43 33	1.51 33	1.62 33	1.76 29	2.27 21	2.59 18	9.73 18	104.00 34	220.00 31
1952	0.10 24	0.10 22	0.14 23	0.25 23	2.73 31	7.87 26	10.20 25	17.10 20	43.20 22	101.00 13
1953	0.00 10	0.00 10	0.00 9	0.00 7	0.00 7	0.07 10	0.42 10	0.46 5	5.46 10	105.00 14
1954	0.00 11	0.00 11	0.00 10	0.01 16	0.51 20	0.91 15	1.70 14	3.15 13	14.60 13	120.00 18
1955	0.00 12	0.00 12	0.00 11	0.00 8	0.00 8	0.00 5	0.04 4	0.15 4	0.77 4	64.80 6
1956	0.00 13	0.00 13	0.00 12	0.00 9	0.01 13	0.31 13	0.27 7	1.13 10	7.02 12	31.30 3
1957	0.00 14	0.00 14	0.00 13	0.00 10	0.00 9	0.00 6	0.00 1	0.00 1	0.54 3	45.00 4
1958	0.00 15	0.00 15	0.00 14	0.00 11	0.00 10	1.21 18	3.76 19	25.70 24	54.40 27	252.00 34
1959	0.40 32	0.40 30	0.40 30	0.59 31	1.11 26	15.30 34	18.60 29	22.50 21	24.80 16	114.00 16
1960	0.20 28	0.20 27	0.21 26	0.34 25	1.44 28	8.44 27	55.40 35	45.80 34	76.50 33	143.00 21
1961	0.10 25	0.17 26	0.19 25	0.31 24	1.25 27	4.92 24	4.67 20	27.90 27	51.40 26	224.00 32
1962	0.20 29	0.23 28	0.34 29	0.51 28	2.16 30	13.10 32	23.40 32	26.20 25	39.00 19	114.00 17
1963	0.10 26	0.10 23	0.16 24	0.41 26	0.79 23	8.45 28	27.90 34	34.10 32	47.90 24	84.70 10
1964	0.00 16	0.00 16	0.00 15	0.00 12	0.00 11	0.00 7	0.00 2	0.00 2	0.00 1	19.80 1
1965	0.00 17	0.00 17	0.00 16	0.00 13	0.03 14	0.08 11	2.45 17	28.50 29	41.80 21	81.10 9
1966	0.00 18	0.00 18	0.02 19	0.19 22	0.70 22	1.07 17	1.18 12	2.41 12	3.93 8	65.30 7
1967	0.00 19	0.00 19	0.00 17	0.00 14	0.00 12	0.05 9	0.40 9	0.84 8	1.09 5	63.40 5
1968	0.09 22	0.15 25	0.26 27	0.58 30	3.27 32	9.23 29	18.20 28	33.00 31	40.80 20	166.00 26
1969	1.70 34	1.73 34	1.93 34	3.18 35	5.40 35	11.00 31	25.20 33	33.60 23	56.80 28	206.00 30
1970	0.00 20	0.03 21	0.09 20	0.18 20	0.28 17	0.51 14	1.55 13	6.37 15	27.60 18	112.00 15
1971	0.00 21	0.00 20	0.00 18	0.01 15	0.28 18	1.45 20	5.94 23	22.50 22	159.00 35	168.00 28
1972	0.40 30	0.47 31	0.56 32	1.36 32	4.86 34	15.40 35	19.50 30	30.10 30	70.70 32	162.00 24
1973	0.20 27	0.24 29	0.27 28	0.51 27	1.03 25	1.22 19	1.83 15	27.90 28	26.10 17	144.00 22
1974	1.70 35	1.97 35	2.59 35	3.00 34	4.22 33	15.20 33	22.10 31	26.20 26	61.50 30	260.00 35

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## FOURCHE MALINE NEAR RED OAK, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1939	2210.0 31	1600.0 30	756.0 32	421.0 33	263.0 33	184.0 32	163.0 30	128.0 31	86.4 32	44.6 33
1940	3100.0 24	1680.0 27	983.0 28	522.0 30	330.0 31	196.0 30	139.0 34	117.0 32	83.0 33	44.3 34
1941	2370.0 29	1350.0 31	919.0 30	492.0 31	362.0 28	266.0 27	216.0 27	213.0 24	174.0 23	91.5 24
1942	12400.0 2	4790.0 6	2210.0 8	1110.0 13	819.0 8	461.0 12	403.0 10	319.0 11	286.0 11	185.0 8
1943	11700.0 3	6250.0 2	2850.0 3	1380.0 6	772.0 9	506.0 11	371.0 12	281.0 15	268.0 12	146.0 12
1944	3760.0 18	2050.0 21	1110.0 25	765.0 18	538.0 17	374.0 16	363.0 14	319.0 12	241.0 14	134.0 16
1945	11300.0 4	5450.0 4	2600.0 5	1940.0 3	1490.0 1	1090.0 1	959.0 1	860.0 1	612.0 1	317.0 1
1946	2660.0 27	1930.0 24	1130.0 23	783.0 17	501.0 21	332.0 20	234.0 25	281.0 16	219.0 16	118.0 19
1947	6510.0 9	5070.0 5	2470.0 6	1180.0 11	621.0 15	566.0 9	400.0 11	304.0 13	302.0 10	182.0 10
1948	2650.0 28	1660.0 29	1040.0 27	614.0 26	432.0 25	284.0 24	243.0 23	202.0 25	155.0 26	82.1 27
1949	2900.0 26	2070.0 20	1110.0 24	687.0 24	538.0 18	354.0 18	290.0 19	278.0 17	211.0 19	108.0 21
1950	9940.0 5	4540.0 7	2210.0 7	1470.0 5	890.0 6	655.0 6	507.0 6	392.0 7	330.0 7	220.0 6
1951	3640.0 19	3040.0 13	1920.0 12	1010.0 15	591.0 16	312.0 23	288.0 20	297.0 14	217.0 17	114.0 20
1952	3470.0 20	2240.0 18	1100.0 26	798.0 16	484.0 22	354.0 19	251.0 22	202.0 26	160.0 25	87.6 25
1953	7590.0 7	3210.0 12	2120.0 9	1080.0 14	822.0 7	728.0 5	580.0 5	445.0 5	325.0 8	167.0 11
1954	1130.0 35	940.0 35	531.0 35	271.0 35	146.0 35	83.4 35	60.1 35	68.0 35	50.0 35	25.7 35
1955	3200.0 23	1930.0 25	1250.0 20	634.0 25	382.0 26	262.0 28	221.0 26	190.0 27	136.0 28	70.5 28
1956	993.0 36	653.0 36	323.0 36	192.0 36	109.0 36	59.5 36	56.8 36	47.8 36	32.9 36	18.3 36
1957	8360.0 6	3470.0 8	2670.0 4	1810.0 4	1240.0 3	941.0 2	792.0 2	630.0 2	439.0 2	228.0 5
1958	3820.0 17	2750.0 16	1310.0 17	726.0 22	449.0 23	367.0 17	276.0 21	244.0 20	199.0 20	137.0 14
1959	6400.0 10	3390.0 9	1550.0 15	742.0 20	448.0 24	331.0 21	293.0 18	226.0 22	175.0 22	97.8 22
1960	18900.0 1	9620.0 1	4240.0 1	2460.0 1	1440.0 2	740.0 3	643.0 3	515.0 3	371.0 4	255.0 2
1961	2040.0 32	1110.0 32	962.0 29	530.0 28	348.0 30	232.0 29	194.0 29	169.0 28	138.0 27	83.4 26
1962	4630.0 13	2820.0 15	1280.0 19	707.0 23	513.0 20	277.0 26	234.0 24	217.0 23	223.0 15	128.0 10
1963	1390.0 33	1010.0 34	534.0 34	296.0 34	227.0 34	179.0 34	141.0 33	115.0 33	81.5 34	53.6 32
1964	3360.0 21	1680.0 28	886.0 31	451.0 32	264.0 32	184.0 33	143.0 32	108.0 34	103.0 31	55.2 31
1965	4060.0 15	2240.0 19	1230.0 21	598.0 27	357.0 29	193.0 31	158.0 31	168.0 29	119.0 29	68.6 29
1966	5840.0 11	3310.0 10	2010.0 11	1220.0 9	645.0 14	328.0 22	324.0 16	250.0 19	179.0 21	91.8 23
1967	1350.0 34	1050.0 33	651.0 33	524.0 29	371.0 27	278.0 25	211.0 28	160.0 30	114.0 30	67.6 30
1968	4450.0 14	2910.0 14	1670.0 14	1150.0 12	735.0 11	509.0 10	446.0 8	384.0 8	315.0 9	184.0 9
1969	3340.0 22	1980.0 23	1160.0 22	732.0 21	514.0 19	390.0 15	370.0 13	354.0 10	336.0 6	190.0 7
1970	2320.0 30	2010.0 22	1340.0 16	1210.0 10	691.0 13	456.0 13	328.0 15	264.0 18	211.0 18	134.0 15
1971	3040.0 25	1900.0 26	1300.0 18	756.0 19	726.0 12	398.0 14	293.0 17	233.0 21	173.0 24	122.0 18
1972	4400.0 12	3270.0 11	2040.0 10	1290.0 7	750.0 10	567.0 6	467.0 7	358.0 9	253.0 13	143.0 13
1973	3970.0 16	2580.0 17	1720.0 13	1280.0 8	925.0 5	739.0 4	605.0 4	513.0 4	389.0 3	240.0 4
1974	7150.0 8	5530.0 3	3120.0 2	2040.0 2	1140.0 4	637.0 7	445.0 9	422.0 6	367.0 5	243.0 3



## MONTHLY DURATION TABLE

FOURCHE MALINE NEAR RED OAK, OKLAHOMA

PERIOD 1938-1974

CLASS LIMIT	TOTAL PERCENT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
0.00	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0.01	90.7	97.2	99.5	100.0	100.0	100.0	98.6	88.3	73.9	75.5	74.4	87.4	94.7
0.02	90.7	97.2	99.5	100.0	100.0	100.0	98.6	88.1	73.9	75.4	74.1	87.3	94.7
0.04	90.6	97.2	99.5	100.0	100.0	100.0	98.6	87.6	73.9	75.3	73.2	87.3	94.7
0.05	90.5	97.2	99.5	100.0	100.0	100.0	98.6	87.4	73.9	75.2	72.8	87.2	94.7
0.08	90.4	97.2	99.5	100.0	100.0	100.0	98.6	87.3	73.9	75.1	71.9	87.2	94.7
0.13	88.5	95.4	99.5	100.0	100.0	100.0	97.5	82.6	67.3	73.1	69.2	84.0	94.3
0.19	88.4	95.4	99.5	100.0	100.0	100.0	97.5	82.5	66.9	73.1	69.0	83.4	94.3
0.30	86.7	94.5	99.5	100.0	100.0	100.0	95.8	77.7	63.3	69.5	66.2	82.8	92.2
0.46	84.4	93.7	99.5	100.0	100.0	100.0	92.6	71.4	58.0	66.5	63.7	78.3	89.9
0.70	82.3	92.7	99.3	99.4	100.0	100.0	90.6	65.6	54.3	64.1	61.0	75.0	86.7
1.10	79.2	91.1	98.1	99.9	100.0	100.0	87.9	57.7	49.6	59.9	56.9	71.0	80.7
1.60	76.7	88.9	96.8	98.7	99.7	100.0	86.0	53.1	45.1	54.4	53.3	67.8	78.9
2.50	72.5	81.1	94.7	97.1	98.9	99.4	80.7	46.5	39.8	48.5	48.2	60.3	74.6
3.80	68.1	75.3	92.5	96.2	97.8	97.8	75.5	41.1	32.3	41.9	42.4	57.5	69.5
5.90	62.9	73.2	90.2	93.9	94.4	93.6	64.2	33.6	25.5	35.0	36.6	52.2	64.6
9.00	57.4	71.0	86.3	89.0	90.6	87.1	53.1	28.0	20.1	29.6	31.4	46.7	58.4
14.00	50.7	66.2	79.0	82.3	84.6	79.9	43.1	23.0	14.4	24.1	24.9	38.4	50.0
21.00	43.9	58.2	70.0	75.4	76.9	69.4	34.5	18.8	10.8	19.8	19.7	32.9	42.0
32.00	36.2	44.5	58.3	67.4	68.4	57.2	26.9	16.0	7.5	15.6	16.1	25.2	33.3
49.00	29.1	33.2	48.4	56.8	57.3	45.3	19.7	13.3	5.5	12.4	13.5	20.3	25.4
75.00	22.8	23.3	38.6	44.8	44.8	35.8	15.3	10.8	4.1	10.1	10.8	16.6	20.3
120.00	16.8	16.2	28.2	32.6	34.6	26.5	10.8	7.8	2.8	6.9	8.6	12.6	14.5
180.00	12.7	10.6	18.9	24.3	27.4	20.8	8.1	6.6	2.3	5.6	7.3	9.3	11.3
270.00	9.4	6.8	13.2	16.9	21.0	16.3	6.5	5.0	1.3	3.8	6.0	7.1	8.9
410.00	6.9	4.0	9.7	12.3	15.7	12.2	5.1	3.7	0.8	2.4	4.8	5.4	6.6
630.00	4.9	2.6	5.8	8.2	12.1	8.6	4.0	2.6	0.5	1.7	3.8	4.0	4.7
970.00	3.0	1.6	3.8	5.1	7.5	5.6	2.7	1.7	0.4	0.8	2.2	2.3	2.8
1500.00	1.6	0.7	2.2	2.6	4.4	3.8	1.3	1.1	0.1	0.4	1.1	1.1	1.2
2300.00	0.8	0.2	1.2	1.1	2.2	1.9	0.6	0.5	0.1	0.1	0.2	0.6	0.6
3500.00	0.4	0.0	0.3	0.5	0.8	1.3	0.2	0.3	0.0	0.1	0.1	0.4	0.4
5300.00	0.2	0.0	0.1	0.1	0.5	0.6	0.0	0.2	0.0	0.1	0.0	0.2	0.3
8100.00	0.1	0.0	0.1	0.0	0.2	0.3	0.0	0.1	0.0	0.1	0.0	0.0	0.1
12000.00	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0

## STATISTICS OF ANNUAL DISCHARGE FOR WATER YEARS, 1939-74

Units of annual Discharge	Mean	Standard Deviation	Coefficient of Variation	Skew Coefficient	First Order Serial Correlation Coefficient
CFS	130	71.8	0.55	0.65	0.11
LOGS of CFS	2.036	0.282		-0.760	0.167

## ARKANSAS RIVER BASIN

253

## 07248500 POTEAU RIVER NEAR WISTER, OKLA.

LOCATION.--Lat 34°56'15", long 94°42'54", in NW 1/4 NW 1/4 sec.6, T.5 N., R.25 E., Leflore County, on left bank of outflow channel 700 ft (213.4 m) downstream from Wister Dam, 2.2 mi (3.5 km) southeast of Wister, 2.6 mi (4.2 km) upstream from Caston Creek, and at mile 60.8 (97.8 km).

DRAINAGE AREA.--993 mi<sup>2</sup> (2,572 km<sup>2</sup>).

PERIOD OF RECORD.--May 1938 to September 1974. Statistical summaries for this station are divided into unregulated and regulated periods.

AVERAGE DISCHARGE.--11 years (1939-49), 1,325 cfs (37.5 m<sup>3</sup>/s); 25 years (1950-74), 1,063 ft<sup>3</sup>/s (30.1 m<sup>3</sup>/s).

REMARKS.--Flow completely regulated by Wister Lake in Oklahoma since October 1949.

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

## POTEAU RIVER NEAR WISTER, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS
1939	54				3				4	3	13	10	15	8	24	17	16	15	25	34	29	24	22	16	11	2	3	3	2	5	2	1	1	1	326574.0
1940	25							1	5	2	21	19	21	23	52	18	28	47	21	26	17	11	14	3	4	2	5	1							98275.4
1941									6	14	8	8	10	10	6	21	20	17	18	29	22	23	24	25	29	26	15	14	10	10					296733.0
1942															3	10	17	21	14	18	23	23	41	50	46	35	19	20	8	8	3	4	2		482444.0
1943	14	1			6	8	5	17	6	16	12	9			7	5	6	2	19	30	35	41	29	13	20	21	14	7	9	3	4	2	2	1	418342.8
1944					3	2	1	2	3	5	4	31	24	20	18	10	15	21	20	16	39	34	35	14	14	11	11	5	4	1					451362.2
1945			7	2	4	6	1	2	2	1	2	3	1	7	22	10	19	26	34	29	24	21	23	19	13	11	22	13	13	8	10	5	1	1	1156350.9
1946				7	18	4	2	8	2	2	2	3	5	3	3	7	7	17	28	36	27	45	30	18	20	9	17	16	11	8	9	1			573001.7
1947	15	6	5	5	5	6	5	9	8	9	2	3	2	7	6	5	16	38	17	15	35	38	22	19	12	17	10	7	11	6	1	3			602243.3
1948								1	4	2	7	4	5	2	15	29	31	24	31	29	41	32	20	15	27	10	11	10	7	4	4	1			382713.5
1949			2	2	6	4	11	9	2	2			4	7	16	10	30	26	10	12	21	42	25	26	10	10	14	14	16	15	13	6			532768.4

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	108	4018	100.0	9	3.80	62	3650	90.8	18	150.0	295	2299	57.2	27	5700	88	232	5.7
1	0.10	16	3910	97.3	10	5.70	74	3588	89.3	19	220.0	316	2004	49.9	28	8600	66	144	3.5
2	0.20	16	3894	96.9	11	8.60	80	3514	87.5	20	330.0	312	1688	42.0	29	13000	45	78	1.9
3	0.30	33	3878	96.5	12	13.00	100	3454	85.5	21	500.0	295	1376	34.2	30	19000	19	33	.8
4	0.50	28	3645	95.7	13	19.00	149	3334	83.0	22	750.0	247	1081	26.9	31	29000	10	14	.3
5	0.70	33	3817	95.0	14	29.00	226	3185	79.3	23	1100.0	226	834	20.8	32	44000	1	4	.0
6	1.10	37	3784	94.2	15	44.00	171	2959	73.6	24	1700.0	126	608	15.1	33	65000	3	3	.0
7	1.70	57	3747	93.3	16	65.00	190	2788	69.4	25	2500.0	130	482	12.0	34				
8	2.50	40	3690	91.8	17	98.00	299	2598	64.7	26	3800.0	120	352	8.8					

## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## POTEAU RIVER NEAR WISTER, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1939	0.00 1	3.00 1	0.00 1	0.00 1	0.00 1	2.93 4	19.50 4	26.00 3	34.90 2	609.00 1
1940	0.00 2	0.00 2	0.00 2	0.00 2	0.00 2	1.45 2	5.29 1	10.70 1	18.10 1	640.00 2
1941	1.40 8	1.43 8	1.49 8	1.95 8	2.44 6	5.92 5	31.70 5	85.20 7	139.00 6	7450.00 3
1942	3.00 10	3.47 10	4.40 10	6.40 10	21.60 10	38.40 9	63.20 8	143.00 9	436.00 9	1030.00 5
1943	2.70 9	2.87 9	3.80 9	5.41 9	9.45 9	91.10 10	82.50 9	129.00 8	278.00 8	1000.00 4
1944	0.00 3	0.00 3	0.00 3	0.00 3	0.55 4	1.58 3	10.40 3	53.60 5	100.00 4	1460.00 7
1945	0.10 6	0.10 6	0.10 6	0.21 6	2.48 7	10.50 6	33.90 6	34.70 4	125.00 5	2040.00 10
1946	24.00 11	28.30 11	37.30 11	54.20 11	78.60 11	187.00 11	322.00 11	881.00 11	744.00 10	2370.00 11
1947	0.00 4	0.00 4	0.03 5	0.09 4	0.20 3	0.44 1	9.67 2	22.60 2	839.00 11	1810.00 9
1948	0.00 5	0.00 5	0.00 4	0.09 5	0.94 5	14.40 7	92.70 10	166.00 10	162.00 7	1500.00 8
1949	0.50 7	0.60 7	0.67 7	0.87 7	2.63 8	24.20 8	44.20 7	56.60 6	87.60 3	1310.00 6

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## POTEAU RIVER NEAR WISTER, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL										
1939	70000.0	1	44000.0	1	22100.0	3	12500.0	3	6680.0	4	4550.0	5	3300.0	6	2570.0	6	1760.0	9	895.0	9
1940	7010.0	11	5790.0	11	4080.0	11	2490.0	11	1870.0	11	1120.0	11	811.0	11	662.0	11	494.0	11	269.0	11
1941	8580.0	10	7360.0	10	5650.0	10	3990.0	10	2880.0	10	2060.0	10	1830.0	10	1750.0	10	1510.0	10	813.0	10
1942	20100.0	8	17300.0	8	10100.0	9	5150.0	9	5080.0	7	3230.0	8	2720.0	9	2430.0	9	2040.0	7	1320.0	5
1943	65000.0	3	40500.0	3	21700.0	4	13400.0	2	7270.0	3	4290.0	6	3300.0	7	2570.0	7	2040.0	6	1150.0	7
1944	20900.0	7	16800.0	8	10800.0	6	6290.0	8	4670.0	8	3630.0	7	3640.0	3	3030.0	4	2350.0	5	1230.0	6
1945	65400.0	2	43100.0	2	24300.0	1	17800.0	1	13400.0	1	10100.0	1	8860.0	1	8230.0	1	5830.0	1	3170.0	1
1946	25000.0	5	18500.0	6	10800.0	7	9730.0	6	6500.0	6	4880.0	4	3410.0	5	3410.0	3	2810.0	2	1570.0	3
1947	42800.0	4	36900.0	4	23000.0	2	11200.0	5	6570.0	5	5200.0	3	3640.0	4	2770.0	5	2540.0	4	1650.0	2
1948	23700.0	6	19100.0	5	10300.0	8	6700.0	7	4280.0	9	2860.0	9	2760.0	8	2440.0	8	1940.0	8	1050.0	8
1949	14400.0	9	14200.0	9	13600.0	5	12000.0	4	9170.0	2	5500.0	2	4420.0	2	3840.0	2	2810.0	3	1460.0	4

## ARKANSAS RIVER BASIN

07248500 POTEAU RIVER NEAR WISTER, OKLA.

LOCATION.--Lat 34°56'15", long 94°42'54", in NW 1/4 NW 1/4 sec.6, T.5 N., R.25 E., Leflore County, on left bank of outflow channel 700 ft (213.4 m) downstream from Wister Dam, 2.2 mi (3.5 km) southeast of Wister, 2.6 mi (4.2 km) upstream from Caston Creek, and at mile 60.8 (97.8 km).

DRAINAGE AREA.--993 mi<sup>2</sup> (2,572 km<sup>2</sup>).

PERIOD OF RECORD.--May 1938 to September 1974. Statistical summaries for this station are divided into unregulated and regulated periods.

AVERAGE DISCHARGE.--11 years (1939-49), 1,325 ft<sup>3</sup>/s (37.5 m<sup>3</sup>/s); 25 years (1950-74), 1,063 ft<sup>3</sup>/s (30.1 m<sup>3</sup>/s).

REMARKS.--Flow completely regulated by Wister Lake since October 1949.

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

POTEAU RIVER NEAR WISTER, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	
YEAR	NUMBER OF DAYS IN CLASS																																			CFS_DAYS
1950										6	14	21	14	8	16	10	21	11	9	3	3	7	37	16	17	9	17	20	10	15	7	6	42	26	590636.6	
1951					2	15	11	2		4	16	34	10	21	15	9	1	15	6	31	29	16	12	25	10	17	3	10	14	15	20	2			314349.0	
1952						16	4		2	57	57					5	4	2	7	4	4	13	17	27	25	17	21	15	18	7	18	11	15		403005.8	
1953			2						2	29	69	24	22	10	3		3	2	2	5	22	18	12	15	13	3	20	7	11	19	28	24			536785.2	
1954	34	30	10	5	19	13	32	31	3		1	10	13	13	12		1	5	25	12	11	15	8	9	5	5	5	13	3	3	5	14			155713.8	
1955	4	12	5	8	11	1	2	7	33	52	21	1	7	1		7	3	1	12	6	16	8	18	16	22	17	16	8	18	6	10	16			250639.7	
1956				6	33	9	48	56	34	21	7	1	4	13		1	1	4	10	3	44	9	11	9	16	8	5	3	4	1	2	3			73203.8	
1957			2	16	31	5	9	4	1			2		5	14	10	1	1	7	7	11	9	13	11	11	17	19	16	14	18	43	61	5	2		750083.5
1958										2		2		5	27	12	8	13	13	23	12	16	33	16	29	23	33	18	20	21	32	7			525035.2	
1959										5	22	27	1	67	15	1	6	6	46	22	37	31	11	13	11	10	4	12	13					196652.7		
1960								5	3			5	4	18	14	20	16	15	6	20	8	12	16	26	19	24	24	23	17	19	49	3			589749.8	
1961													35	15	33	34	4	8	14	31	3	23	30	14	21	19	15	15	18	9	24			345814.5		
1962													12	28	38	30	3	10	3	13	9	15	17	16	25	18	21	19	12	30	25	10			359340.1	
1963			2	2	3	1	2	1				20	42	55	1	15	4	41	5	30	28	20	19	23	15	16	21	4	4	2					122308.9	
1964			5	28	22	2	7	30	14	14	8	5	3	38	46	10	12	12	5	1	7	4	12	7	9	13	15	5	3	3	7	5	11	3		119792.4
1965							1			2	1	23	20	25	28	10	2	1	20	6	15	27	12	23	25	23	12	13	15	17	29	15			359351.0	
1966											1	5	39	50	55	8	7	10	20	13	31	20	24	25	16	3	2		5	3	9	19			210290.6	
1967							3	7	8	43	16	31	79	6	5	16	15	5	28	14	8	2	8	4	7	11	6	4	11	13	15				214872.6	
1968			2	3	1	1			1		1	2	37	26	5	3	11	10	9	17	9	16	30	18	14	9	11	9	19	23	74	5			711265.7	
1969											1	30	54	12	7	3	3	2	3	2	19	22	18	12	21	13	14	22	22	34	51				605939.7	
1970											3	4	50	27	2	43	9	1	3	7	18	15	35	14	33	21	18	10	5	11	18	18				299687.4
1971											3	6	17	10	16	11	12	6	12	53	12	19	28	26	31	24	34	15	10	15	5				283053.0	
1972						1					1	48	51	13	11	5	10	13	16	37	6	23	19	28	13	12	4	4	7	8	36				344700.0	
1973												31	2	3	46	12	1	1	19	4		21	8	17	17	9	20	23	21	31	79				761736.2	
1974												2	34	27	5	6		17	1	10	8	13	10	71	11	19	11	23	29	24	44				575206.8	

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	43	9131	100.0	9	2.30	106	8392	91.9	18	52.0	271	5629	61.6	27	1200	336	2141	23.4
1	0.10	70	9088	99.5	10	3.20	136	8286	90.7	19	74.0	218	5358	58.7	28	1700	297	1805	19.7
2	0.20	41	9018	98.8	11	4.60	212	8150	89.3	20	100.0	501	5140	56.3	29	2400	323	1508	16.5
3	0.30	39	8977	98.3	12	6.50	513	7938	86.9	21	150.0	361	4639	50.8	30	3400	422	1185	12.9
4	0.40	105	8938	97.9	13	9.20	659	7425	81.3	22	210.0	438	4278	46.9	31	4800	674	763	8.3
5	0.60	66	8833	96.7	14	13.00	393	6766	74.1	23	300.0	454	3840	42.1	32	6800	87	89	.9
6	0.80	124	8767	96.0	15	18.00	402	6373	69.8	24	420.0	508	3386	37.1	33	9600	2	2	.0
7	1.10	145	8643	94.7	16	26.00	208	5971	65.4	25	600.0	385	2878	31.5	34				
8	1.60	106	8498	93.1	17	37.00	134	5763	63.1	26	840.0	352	2493	27.3					

## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## POTEAU RIVER NEAR WISTER, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1951	1.70 13	1.80 10	2.31 10	2.90 8	4.50 8	21.70 14	111.00 16	145.00 17	571.00 19	1300.00 19
1952	0.70 8	0.77 7	0.89 8	1.47 6	64.60 24	139.00 22	230.00 22	278.00 21	535.00 17	954.00 11
1953	0.20 4	3.80 13	3.80 12	3.93 9	4.17 7	5.16 7	6.12 7	7.06 6	64.70 7	1020.00 14
1954	0.00 1	0.00 1	0.00 1	0.00 1	0.07 1	2.66 4	5.28 6	5.71 5	189.00 9	1120.00 17
1955	0.00 2	0.00 2	0.04 3	0.07 2	0.62 4	3.28 5	3.77 4	4.32 3	17.80 5	681.00 7
1956	0.70 9	0.77 8	0.79 7	0.83 5	0.93 5	1.30 3	1.75 3	4.94 4	14.30 4	401.00 3
1957	0.20 5	0.27 4	0.30 4	0.31 4	0.37 3	0.51 2	1.74 2	1.52 2	2.76 1	514.00 5
1958	4.80 17	6.10 18	21.00 24	42.40 24	61.00 23	878.00 24	805.00 24	1040.00 24	1060.00 24	2260.00 23
1959	6.90 21	20.00 24	20.10 23	21.00 22	36.90 22	77.20 21	131.00 18	178.00 18	257.00 12	1050.00 15
1960	4.70 16	5.20 15	6.27 15	8.12 17	13.20 18	21.30 13	226.00 21	179.00 19	359.00 15	926.00 9
1961	1.80 14	1.97 11	2.86 11	6.79 13	10.00 15	25.70 15	28.90 11	98.00 14	499.00 16	1370.00 20
1962	0.30 6	0.50 5	0.71 5	17.70 21	35.10 21	208.00 23	367.00 23	390.00 23	739.00 21	1290.00 18
1963	7.30 22	7.63 21	7.96 20	8.44 18	11.40 16	46.50 16	86.50 15	81.70 11	196.00 10	469.00 4
1964	0.00 3	0.00 3	0.03 2	0.09 3	0.10 2	0.15 1	0.34 1	0.81 1	4.02 2	174.00 1
1965	5.20 18	5.60 16	5.71 13	5.89 10	6.38 9	7.00 8	23.60 10	88.30 12	259.00 13	846.00 8
1966	0.90 11	3.53 12	5.93 14	6.23 11	6.60 10	8.00 10	34.20 12	79.30 9	116.00 8	603.00 6
1967	1.30 12	1.37 9	1.50 9	1.91 7	3.37 6	3.58 6	4.74 5	7.83 7	14.00 3	354.00 2
1968	0.48 7	0.60 6	0.77 6	7.48 15	9.27 14	58.00 18	199.00 20	283.00 22	560.00 18	1370.00 21
1969	8.40 23	8.60 22	8.74 21	9.13 19	12.20 17	47.60 17	64.10 13	79.60 10	751.00 22	2260.00 24
1970	5.80 19	5.80 17	6.31 16	6.56 12	6.89 11	8.50 12	76.70 14	98.40 15	246.00 11	936.00 10
1971	4.10 15	4.30 14	6.44 17	7.06 14	7.34 12	8.28 11	13.30 9	86.70 13	584.00 20	1000.00 12
1972	6.10 20	6.17 19	6.50 18	10.90 20	33.00 20	66.70 19	154.00 19	140.00 16	275.00 14	1020.00 13
1973	0.84 10	7.37 20	7.56 19	7.59 16	7.80 13	7.89 9	8.53 8	34.90 8	61.00 6	1100.00 16
1974	8.70 24	9.37 23	17.60 22	23.60 23	24.00 19	70.90 20	126.00 17	229.00 20	871.00 23	1870.00 22

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## POTEAU RIVER NEAR WISTER, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1950	8380.0 4	8280.0 4	7970.0 3	6200.0 9	5000.0 7	4760.0 4	3380.0 7	2610.0 8	2230.0 7	1620.0 5
1951	7090.0 7	6840.0 8	6650.0 7	6220.0 8	4610.0 9	2500.0 16	2070.0 15	1830.0 15	1420.0 16	861.0 15
1952	9570.0 2	9520.0 2	9110.0 1	6610.0 3	4820.0 8	3540.0 8	2680.0 11	2160.0 11	1990.0 10	1100.0 10
1953	9100.0 3	8930.0 3	8440.0 2	6800.0 1	6160.0 4	5330.0 1	4590.0 2	3650.0 4	2700.0 5	1470.0 8
1954	6600.0 12	6370.0 14	5760.0 16	4110.0 17	2550.0 19	1420.0 22	1070.0 22	1240.0 21	845.0 22	427.0 22
1955	6260.0 17	6210.0 15	6160.0 13	5850.0 13	3550.0 16	2630.0 13	2070.0 16	1860.0 13	1350.0 17	687.0 18
1956	5690.0 22	5360.0 21	4220.0 22	2400.0 23	1620.0 24	955.0 24	700.0 24	584.0 24	391.0 25	200.0 25
1957	11000.0 1	9950.0 1	7450.0 4	6660.0 2	6190.0 3	4430.0 6	4280.0 4	4040.0 2	3370.0 1	2060.0 2
1958	7020.0 8	6970.0 7	6900.0 5	6450.0 5	4410.0 10	3320.0 11	3190.0 8	2760.0 7	2170.0 8	1440.0 9
1959	5770.0 19	5220.0 22	3830.0 24	3260.0 22	2470.0 22	1690.0 20	1470.0 20	1200.0 22	923.0 21	539.0 21
1960	7500.0 5	7120.0 5	6650.0 8	6590.0 4	6440.0 1	4460.0 5	3570.0 5	2790.0 6	2340.0 6	1610.0 6
1961	6540.0 13	6420.0 12	5790.0 15	4010.0 18	2510.0 20	2180.0 18	1670.0 19	1750.0 17	1530.0 13	947.0 13
1962	5720.0 21	5530.0 20	5200.0 19	4000.0 19	3430.0 17	2490.0 17	2160.0 13	2050.0 12	1770.0 11	984.0 12
1963	3640.0 25	3270.0 25	2330.0 25	1350.0 25	1010.0 25	788.0 25	635.0 25	508.0 25	510.0 24	335.0 23
1964	5270.0 23	4890.0 24	3940.0 23	2180.0 24	1630.0 23	1200.0 23	1040.0 23	786.0 23	565.0 23	327.0 24
1965	5730.0 20	5540.0 19	5220.0 18	3640.0 21	3020.0 18	2520.0 15	1930.0 17	1810.0 16	1530.0 14	985.0 11
1966	6620.0 11	6450.0 11	6390.0 10	5830.0 14	3820.0 14	1970.0 19	1790.0 18	1610.0 18	1100.0 20	576.0 20
1967	6510.0 14	5840.0 18	5120.0 20	4210.0 16	3710.0 15	2920.0 12	2110.0 14	1610.0 19	1160.0 18	589.0 19
1968	7410.0 6	6990.0 6	6720.0 6	6410.0 6	5870.0 5	4800.0 3	4640.0 1	3880.0 3	3270.0 3	1940.0 3
1969	6440.0 15	6370.0 13	6180.0 12	5880.0 12	4010.0 13	3540.0 9	3420.0 6	3100.0 5	2750.0 4	1660.0 4
1970	6250.0 16	6010.0 17	5740.0 17	5680.0 15	4360.0 12	2570.0 14	2350.0 12	1870.0 14	1550.0 15	821.0 16
1971	5230.0 24	4910.0 23	4780.0 21	3860.0 20	2490.0 21	1590.0 21	1420.0 21	1270.0 20	1140.0 19	775.0 17
1972	6630.0 10	6520.0 10	6350.0 11	6310.0 7	6260.0 2	3940.0 7	2850.0 9	2320.0 10	1690.0 12	942.0 14
1973	6710.0 9	6650.0 9	6530.0 9	6110.0 10	5330.0 6	4980.0 2	4410.0 3	4120.0 1	3320.0 2	2090.0 1
1974	6300.0 16	6200.0 16	6030.0 14	5970.0 11	4400.0 11	3450.0 10	2690.0 10	2480.0 9	2030.0 9	1580.0 7

## ARKANSAS RIVER BASIN

07249000 POTEAU RIVER AT POTEAU, OKLA.

LOCATION.--Lat 35°03'35", long 94°36'10", in SE 1/4 SW 1/4 sec.19, T.7 N., R.26 E., at St. Louis-San Francisco Railway bridge, 1.0 mi (1.6 km) northeast of Poteau, 2.0 mi (3.2 km) upstream from Nail Creek, and at mile 39.6 (63.7 km).

DRAINAGE AREA.--1,240 mi<sup>2</sup> (3,212 km<sup>2</sup>).

PERIOD OF RECORD.--October 1937 to September 1945.

AVERAGE DISCHARGE.--8 years (1938-45), 1,511 ft<sup>3</sup>/s (42.8 m<sup>3</sup>/s).

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

POTEAU RIVER AT POTEAU, OKLAHOMA																																				
CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	
YEAR	NUMBER OF DAYS IN CLASS																																	CFS_DAYS		
1938								4	5	1	5	4	16	17	13	16	9	6	26	25	59	25	25	24	21	15	17	3	16	2	3	3	3	1	1	715732.3
1939			11	25	17			4	3	6	12	12	15	18	16	22	19	11	26	37	18	15	19	16	13	7	6	2	5	6	1	1		2	378027.1	
1940			2	21	1	3				8	17	14	24	21	50	18	17	43	38	18	22	12	10	9	4	2	6	4	2						114733.1	
1941	1		1	3	3	2	6	7	20	8	5	4	16	15	8	18	19	36	22	22	23	20	29	22	15	13	14	11	2						362818.8	
1942													2	10	9	22	14	15	16	25	26	33	36	53	31	21	21	12	8	6	4	1			560148.0	
1943	3	8	10	9	3	7	6	7	14	15	7	7	8	5	3	5	29	31	34	36	21	15	15	19	15	8	10	5	2	4	1	1	2		476025.2	
1944							2	3	4	4	3	22	24	25	16	14	14	18	22	17	18	38	26	34	16	11	14	11	6	3	1				487944.7	
1945						11	4	7	3	2	2	1	1	20	10	12	19	30	36	28	17	19	20	24	7	16	13	21	13	9	9	7	3	1	1318596.1	

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	2922	100.0	9	4.20	56	2723	93.2	18	130.0	221	1819	62.3	27	4100	72	249	8.5					
1	0.20	4	2922	100.0	10	6.10	63	2667	91.3	19	190.0	219	1598	54.7	28	6000	79	177	6.0					
2	0.30	8	2918	99.9	11	4.00	47	2604	89.1	20	280.0	228	1379	47.2	29	8800	37	98	3.3					
3	0.40	24	2910	99.6	12	13.00	91	2557	87.5	21	410.0	164	1151	39.4	30	13000	24	61	2.0					
4	0.60	58	2886	98.8	13	19.00	115	2466	84.4	22	600.0	182	987	33.8	31	19000	16	37	1.2					
5	0.90	24	2828	96.8	14	28.00	153	2351	80.5	23	880.0	192	805	27.5	32	28000	11	21	.7					
6	1.30	23	2804	96.0	15	41.00	115	2198	75.2	24	1300.0	168	613	21.0	33	40000	8	10	.3					
7	1.90	26	2781	95.2	16	61.00	108	2083	71.3	25	1900.0	98	445	15.2	34	59000	2	2	.0					
8	2.80	32	2755	94.3	17	89.00	156	1975	67.6	26	2800.0	98	347	11.9										

## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

POTEAU RIVER AT POTEAU, OKLAHOMA																							
YEAR	1		3		7		14		30		60		90		120		183		ANNUAL				
1939	0.50	4	0.50	4	0.57	3	0.63	3	0.76	3	5.63	3	25.90	3	32.80	2	56.10	2	751.00	2			
1940	0.40	3	0.43	3	0.47	2	0.51	2	0.65	1	1.85	1	5.85	1	12.00	1	19.40	1	726.00	1			
1941	0.20	1	0.40	2	0.70	4	1.46	4	2.79	4	6.49	4	34.20	4	125.00	5	169.00	5	900.00	3			
1942	3.50	7	4.33	7	4.86	7	7.21	7	28.50	7	48.10	6	98.70	7	188.00	7	530.00	7	1210.00	5			
1943	3.20	6	3.33	6	3.87	6	4.52	6	10.30	6	112.00	7	97.80	6	142.00	6	307.00	6	1150.00	4			
1944	0.20	2	0.20	1	0.26	1	0.40	1	0.74	2	2.44	2	12.20	2	57.50	4	105.00	3	1610.00	6			
1945	1.50	5	1.30	5	1.34	5	2.00	5	6.61	5	19.90	5	42.90	5	55.40	3	148.00	4	2230.00	7			

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

POTEAU RIVER AT POTEAU, OKLAHOMA																							
YEAR	1		3		7		15		30		60		90		120		183		ANNUAL				
1938	65800.0	1	54300.0	1	32300.0	1	16200.0	2	12300.0	2	6980.0	2	6000.0	2	4730.0	2	3580.0	2	1960.0	2			
1939	57000.0	3	45100.0	3	24400.0	4	13700.0	4	7490.0	4	5090.0	3	3780.0	4	2970.0	4	2030.0	6	1040.0	6			
1940	7360.0	8	6140.0	8	4600.0	8	2950.0	8	2170.0	8	1300.0	8	930.0	8	761.0	8	581.0	8	313.0	8			
1941	8990.0	7	8480.0	7	6880.0	7	4850.0	7	3490.0	7	2580.0	7	2250.0	7	2150.0	7	1840.0	7	994.0	7			
1942	22200.0	5	19100.0	5	11800.0	6	6020.0	6	5830.0	5	3700.0	6	3170.0	6	2860.0	6	2360.0	5	1530.0	3			
1943	52400.0	4	43500.0	4	24600.0	3	15000.0	3	8310.0	3	4810.0	4	3750.0	5	2910.0	5	2380.0	4	1300.0	5			
1944	19400.0	6	16900.0	6	11900.0	5	6590.0	5	4960.0	6	3880.0	5	3930.0	3	3280.0	3	2540.0	3	1330.0	4			
1945	59300.0	2	49100.0	2	28600.0	2	19200.0	1	14900.0	1	11200.0	1	10100.0	1	9500.0	1	6710.0	1	3610.0	1			



## ARKANSAS RIVER BASIN

257

07249400 JAMES FORK NEAR HACKETT, ARK.

LOCATION.--Lat 35°09'45", long 94°24'25", in NW 1/4 NW 1/4 sec.34, T.6 N., R.32 W., Sebastian County, near left bank on downstream side of bridge on State Highway 45, 1.7 mi (2.7 km) south of Hackett, 2 mi (3.2 km) downstream from Elder Branch, 2 mi (3.2 km) upstream from small tributary, and 3.6 mi (5.8 km) upstream from Arkansas-Oklahoma State line.

DRAINAGE AREA.--147 mi<sup>2</sup> (381 km<sup>2</sup>).

PERIOD OF RECORD.--April 1958 to September 1974.

AVERAGE DISCHARGE.--16 years (1959-74), 132 ft<sup>3</sup>/s (3.74 m<sup>3</sup>/s).

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

## JAMES FORK NEAR HACKETT, ARKANSAS

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS
1959										7	19	36	24	14	17	36	39	46	38	21	24	15	11	7	4	3	2	1	1					25426.8	
1960							2	1	23	18	13	21	9	5	28	27	25	22	25	29	38	30	17	11	5	8	2	2	1		4			72095.4	
1961					2	6		2	5	5	17	12	14	22	24	25	49	27	30	31	25	26	11	11	4	5	3	1	1	1	1	1		59169.3	
1962		1	1	1	2	2	5	3	2	5	7	14	17	36	24	21	21	24	29	43	36	23	11	16	10	4	4	1	1	1				56079.3	
1963	45	2	5	2	5	9	2	2	4	4	11	10	11	41	30	23	36	33	33	28	13	8	6		1	1								17242.4	
1964	73		27	6	33	27	5	10	11	8	12	17	16	15	8	13	14	16	18	13	4	8	3	2	3	1	1	2						17861.5	
1965	8	2	4	1	4	4	4	5	6	17	11	24	27	14	11	33	31	25	33	32	17	15	13	5	5	2	4	4	3	1				50283.6	
1966			16	35	47	44	29	33	19	6	9	10	13	8	24	21	12	12	7	3	4	3	3	2		2	3							17434.3	
1967	23	31	29	36	25	34	32	23	19	11	8	9	7	4	3	4	8	7	13	12	6	6	4	2	5	2	1	1						22598.1	
1968				3	7	16	17	17	11	9	6	10	9	22	17	15	43	41	23	24	19	12	9	4	8	6	3	4	2	2	1	1		103756.1	
1969			1	3	16	16	18	13	19	11	8	8	18	8	11	21	32	36	44	27	14	9	9	6	7	2	1	2	4			1		67805.3	
1970	9	8	10	12	14	10	15	21	19	12	13	13	27	12	13	19	18	28	38	17	10	6	5	5	4	3	3				1			38640.0	
1971			3	8	3	25	12	19	18	14	11	15	22	20	30	43	47	38	15	5	8	2	3	2		2								26364.7	
1972		17	15	9	9	13	22	28	25	22	15	34	17	17	30	16	17	19	3	3	1	2	3		1	1	1					1		30235.9	
1973				1	2	2	4	6	16	34	16	16	9	11	12	17	28	33	34	33	22	24	15	7	7	8	4	2	1			1			112518.0
1974						3	2	19	23	19	29	20	12	14	22	37	50	39	28	13	12	5	4	3	2	3	5	1							55958.1

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	126	5844	100.0	9	2.50	232	4632	79.3	18	62.0	455	1972	33.7	27	1600	36	86	1.4
1	0.10	37	5718	97.8	10	3.60	238	4400	75.3	19	89.0	454	1517	26.0	28	2200	23	50	.8
2	0.20	93	5681	97.2	11	5.10	255	4162	71.2	20	130.0	311	1063	18.2	29	3200	12	27	.4
3	0.30	81	5588	95.6	12	7.30	229	3907	66.9	21	180.0	228	752	12.9	30	4600	9	15	.2
4	0.40	147	5507	94.2	13	10.00	309	3678	62.9	22	260.0	147	524	9.0	31	6500	3	6	.1
5	0.60	175	5360	91.7	14	15.00	279	3369	57.6	23	370.0	112	377	6.5	32	9400	1	3	.0
6	0.90	156	5185	88.7	15	21.00	311	3090	52.9	24	530.0	80	265	4.5	33	13000	2	2	.0
7	1.20	188	5029	86.1	16	30.00	396	2779	47.6	25	760.0	59	185	3.2	34				
8	1.70	211	4843	82.9	17	44.00	411	2383	40.8	26	1100.0	40	126	2.2					

## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## JAMES FORK NEAR HACKETT, ARKANSAS

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1959	1.80 13	1.87 13	2.01 13	3.23 13	4.33 13	9.02 13	11.90 13	13.60 13	23.30 8	156.00 11
1960	2.60 14	3.33 14	3.51 14	4.19 15	6.85 15	13.70 15	17.70 15	22.70 15	50.70 12	140.00 10
1961	0.40 10	0.50 10	0.86 12	1.51 12	3.73 11	4.14 11	11.80 12	10.40 10	26.80 9	139.00 9
1962	4.50 16	4.90 16	4.96 16	5.76 16	15.30 16	29.40 16	40.20 16	57.30 16	133.00 16	240.00 15
1963	0.10 6	0.27 8	0.41 8	0.78 9	3.96 12	11.40 14	12.00 14	14.90 14	36.10 11	61.00 3
1964	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.32 1	26.10 1
1965	0.20 7	0.20 6	0.20 5	0.20 4	0.22 3	1.04 6	2.36 6	9.59 8	21.10 7	122.00 7
1966	0.00 2	0.00 2	0.00 2	0.43 6	0.57 6	0.72 3	0.74 3	0.80 3	2.34 3	62.00 4
1967	0.10 3	0.10 3	0.10 3	0.10 2	0.15 2	0.25 2	0.31 2	0.40 2	0.56 2	32.60 2
1968	0.50 11	0.50 9	0.63 9	0.87 10	2.36 10	2.80 10	6.58 10	10.20 9	75.40 15	226.00 14
1969	0.60 12	0.67 12	0.79 11	0.98 11	1.42 9	1.73 9	2.26 5	6.36 7	30.20 10	270.00 16
1970	0.10 4	0.17 5	0.34 7	0.44 7	0.75 7	1.55 8	2.95 8	3.45 4	8.20 5	73.50 5
1971	0.10 5	0.10 4	0.13 4	0.20 3	0.29 5	0.81 5	4.06 9	11.30 11	68.50 14	126.00 8
1972	0.36 9	0.51 11	0.64 10	0.70 8	0.97 8	1.44 7	2.15 4	3.98 6	4.74 4	88.50 6
1973	0.21 8	0.21 7	0.22 6	0.23 5	0.28 4	0.73 4	2.83 7	3.77 5	8.94 6	190.00 12
1974	3.20 15	3.50 15	3.66 15	4.06 14	5.37 14	6.43 12	9.01 11	11.80 12	61.80 13	206.00 13

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## JAMES FORK NEAR HACKETT, ARKANSAS

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1959	1730.0 15	914.0 15	656.0 15	467.0 13	366.0 12	249.0 12	193.0 12	159.0 12	118.0 13	69.7 12
1960	6490.0 6	4490.0 4	2360.0 5	1330.0 5	862.0 3	451.0 4	378.0 4	329.0 6	307.0 4	197.0 3
1961	6930.0 5	3680.0 6	1660.0 6	872.0 7	467.0 8	420.0 6	349.0 6	349.0 4	281.0 5	162.0 5
1962	4050.0 8	2470.0 9	1190.0 9	781.0 9	615.0 7	417.0 7	353.0 5	331.0 5	277.0 6	154.0 6
1963	877.0 16	614.0 16	336.0 16	228.0 16	181.0 16	135.0 16	111.0 16	94.3 16	77.9 16	47.2 16
1964	2160.0 12	1360.0 11	676.0 13	348.0 15	264.0 15	167.0 15	157.0 14	124.0 15	82.7 15	48.8 14
1965	3220.0 10	1750.0 10	842.0 11	510.0 11	438.0 11	371.0 9	297.0 9	293.0 7	228.0 8	138.0 8
1966	2080.0 13	1180.0 13	674.0 14	444.0 14	347.0 13	184.0 13	140.0 15	139.0 14	91.8 14	47.8 15
1967	2210.0 11	1270.0 12	752.0 12	601.0 10	470.0 10	351.0 11	240.0 11	181.0 11	123.0 11	61.9 13
1968	17100.0 1	7960.0 1	3840.0 1	1940.0 1	1050.0 2	889.0 2	715.0 2	590.0 2	477.0 2	283.0 2
1969	7840.0 4	3930.0 5	2400.0 4	1350.0 4	717.0 5	526.0 3	524.0 3	439.0 3	352.0 3	186.0 4
1970	4960.0 7	2830.0 8	1470.0 8	1160.0 6	643.0 6	414.0 8	314.0 7	249.0 9	193.0 9	106.0 9
1971	2010.0 14	1140.0 14	890.0 10	472.0 12	298.0 14	175.0 14	165.0 13	146.0 13	122.0 12	72.2 11
1972	13400.0 2	5970.0 2	3010.0 2	1520.0 3	804.0 4	430.0 5	299.0 8	229.0 10	162.0 10	82.6 10
1973	9890.0 3	5020.0 3	2990.0 3	1750.0 2	1080.0 1	992.0 1	753.0 1	653.0 1	537.0 1	308.0 1
1974	4030.0 9	3030.0 7	1580.0 7	827.0 8	484.0 9	356.0 10	284.0 10	250.0 8	239.0 7	153.0 7

## STATISTICS OF ANNUAL DISCHARGE FOR WATER YEARS, 1959-74

Units of annual Discharge	Mean	Standard Deviation	Coefficient of Variation	Skew Coefficient	First Order Serial Correlation Coefficient
CFS	132	81.4	0.62	0.92	0.04
LOGS of CFS	2.044	2.271		0.066	0.127

## 259

LOCATION.--Lat 35°29'40", long 94°26'58", in SE 1/4 sec.21, T.12 N., R.27 E., Indian Meridian, Sequoyah County, Okla., on right bank 300 ft (91 m) west of Arkansas-Oklahoma State line, 3.2 mi (5.1 km) downstream from Webbers Creek, 6.8 mi (10.9 km) northwest of Van Buren, and at mile 7.8 (12.6 km).

AVERAGE DISCHARGE.--30 years (1931-36, 1950-74), 504 ft<sup>3</sup>/s (14.3 m<sup>3</sup>/s).

[illegible]

CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT
0	0.00	415	10958	100.0	0	0.90	179	10129	92.4	18	56.0	678	6571	60.0	27	3400	132	289	2.6
1	0.01	3	1051	0.0	10	1.50	158	9950	92.8	19	89.0	793	5893	53.8	28	5300	80	157	1.4
2	0.02	9	10540	96.2	11	2.30	301	9702	89.4	20	140.0	891	5100	46.5	29	8400	50	77	0.7
3	0.03	13	10531	96.1	12	3.70	360	9491	89.3	21	220.0	1038	4209	44.4	30	13000	17	10	0.1
4	0.06	37	10518	96.0	13	5.80	384	9131	83.3	22	350.0	980	3711	28.9	31	21000	7	3	0.0
5	0.09	55	10481	95.6	14	9.10	371	8747	79.8	23	550.0	806	2191	20.0	32	33000	3	3	0.0
6	0.20	97	10426	95.1	15	14.00	492	8737	76.4	24	870.0	558	1385	12.6	33				
7	0.40	102	10329	94.3	16	23.00	676	7884	71.9	25	1400.0	330	827	7.5	34				
8	0.60	98	10227	93.3	17	36.00	637	7208	65.8	26	2200.0	208	497	4.5					

## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## LEE CREEK NEAR VAN BUREN, ARKANSAS

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1932	3.00 22	3.67 22	3.86 21	3.93 21	5.90 22	21.10 22	30.50 21	28.70 14	106.00 15	537.00 17
1933	0.00 1	0.00 1	0.00 1	0.00 1	0.53 12	1.02 11	2.67 10	6.43 9	13.60 6	255.00 6
1934	1.00 17	1.00 17	1.43 16	2.07 17	5.33 20	6.77 19	46.40 24	257.00 27	300.00 25	619.00 21
1935	0.00 2	0.00 2	0.00 2	0.00 2	0.00 1	0.35 8	6.49 13	50.60 18	160.00 19	607.00 20
1936	1.00 18	1.00 18	1.43 17	1.93 16	3.13 15	3.87 14	13.60 17	55.40 20	237.00 21	776.00 26
1937	0.00 3	0.00 3	0.00 3	0.00 3	0.00 2	0.00 1	0.12 2	3.33 7	123.00 17	454.00 14
1938	6.00 27	6.80 27	8.14 27	10.90 27	18.00 26	27.00 25	32.50 22	112.00 24	266.00 24	469.00 16
1939	0.00 4	0.00 4	0.00 4	0.00 4	0.03 8	0.17 5	0.71 5	5.72 8	16.60 7	358.00 9
1940	0.00 5	0.00 5	0.07 12	0.16 12	0.27 10	0.31 7	0.93 6	2.66 5	10.40 5	286.00 7
1941	0.00 6	0.00 6	0.00 5	0.00 5	0.00 3	0.00 2	0.13 3	1.83 4	41.50 9	371.00 11
1942	0.30 14	0.33 14	0.37 14	0.44 14	0.55 13	2.11 12	2.29 9	2.83 6	5.06 3	159.00 2
1943	0.00 7	0.00 7	0.00 6	0.00 6	0.00 4	0.00 3	0.00 1	0.13 1	6.67 4	241.00 5
1944	5.00 26	5.60 26	5.94 26	7.32 25	16.10 24	152.00 28	186.00 28	191.00 26	310.00 26	1130.00 28
1945	20.00 29	22.30 29	26.60 29	28.20 29	50.70 29	131.00 27	115.00 27	284.00 28	244.00 23	673.00 23
1946	4.90 25	5.03 25	5.53 25	7.49 26	18.30 27	24.60 24	79.90 26	97.40 22	242.00 22	577.00 19
1947	2.20 20	2.67 20	2.46 20	3.70 20	4.58 19	4.92 17	5.68 12	11.00 11	64.60 12	437.00 12
1948	18.00 28	19.30 28	23.60 28	27.70 28	45.30 28	227.00 29	237.00 29	293.00 29	359.00 27	662.00 22
1949	3.00 23	3.67 23	4.13 24	5.13 23	17.00 25	27.40 26	34.70 23	35.30 15	85.50 14	176.00 3
1950	0.00 8	0.00 8	0.00 7	0.00 7	0.01 5	0.21 6	1.31 7	1.78 3	3.80 2	99.50 1
1951	0.00 9	0.00 9	0.00 8	0.01 10	0.78 14	8.10 20	26.30 20	40.60 17	46.70 10	313.00 8
1952	0.80 16	0.97 16	1.51 18	2.14 18	4.14 18	4.89 16	7.99 15	17.20 12	23.70 8	439.00 13
1953	0.00 10	0.00 10	0.00 9	0.00 8	0.03 6	0.07 4	0.30 4	0.58 2	1.59 1	213.00 4
1954	0.48 15	0.58 15	0.75 15	1.10 15	3.81 17	4.32 15	7.08 14	26.90 13	85.40 13	573.00 18
1955	0.13 13	0.14 13	0.20 13	0.24 13	0.34 11	0.93 10	1.80 8	10.40 10	122.00 16	749.00 25
1956	0.00 11	0.00 11	0.00 10	0.01 11	0.63 7	0.58 9	5.22 11	53.70 19	200.00 20	462.00 15
1957	0.00 12	0.00 12	0.00 11	0.00 9	0.14 9	2.91 13	18.10 18	60.20 21	488.00 29	796.00 27
1958	2.60 21	2.97 21	3.91 22	5.52 24	8.22 23	22.00 23	25.20 19	39.00 16	56.10 11	363.00 10
1959	1.80 19	1.83 19	2.00 19	2.46 19	3.68 16	5.60 18	10.40 16	98.70 23	156.00 18	675.00 24
1960	3.70 24	3.73 24	4.10 23	4.89 22	5.76 21	13.30 21	48.70 25	144.00 25	434.00 28	1170.00 29

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## LEE CREEK NEAR VAN BUREN, ARKANSAS

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1931	18000.0 11	4520.0 15	5520.0 14	3150.0 15	1870.0 17	1240.0 19	1160.0 18	968.0 18	733.0 21	405.0 21
1932	17700.0 13	9040.0 14	5870.0 12	4110.0 8	2680.0 9	1830.0 4	1390.0 10	1120.0 13	828.0 16	431.0 19
1933	21500.0 8	13100.0 8	6930.0 8	3880.0 11	2790.0 7	1860.0 8	1480.0 8	1250.0 8	1060.0 9	655.0 8
1934	7620.0 26	5410.0 24	2490.0 26	1700.0 26	1180.0 24	746.0 25	576.0 25	571.0 25	464.0 24	336.0 23
1935	29300.0 4	19800.0 2	10400.0 2	6390.0 2	4450.0 3	3250.0 2	2750.0 2	2590.0 1	1890.0 1	1090.0 1
1936	13500.0 16	6680.0 20	3410.0 21	1890.0 23	1090.0 25	627.0 27	465.0 27	367.0 26	249.0 26	203.0 26
1937	13200.0 17	10200.0 12	7440.0 4	4250.0 7	2550.0 10	1470.0 13	1210.0 16	1010.0 16	867.0 12	450.0 14
1938	9600.0 22	7240.0 16	4010.0 18	2470.0 19	1540.0 21	1340.0 17	1070.0 20	905.0 20	772.0 18	446.0 16
1939	9510.0 23	6010.0 22	4570.0 16	2510.0 18	2180.0 11	1870.0 7	1610.0 6	1250.0 9	848.0 13	434.0 18
1940	8280.0 24	4210.0 26	2170.0 27	1150.0 28	621.0 29	378.0 29	264.0 30	260.0 29	182.0 30	92.5 30
1941	10600.0 21	6880.0 19	3620.0 20	2070.0 21	1470.0 22	1230.0 20	1140.0 19	1010.0 17	839.0 14	447.0 15
1942	5860.0 27	3260.0 29	2020.0 28	1090.0 30	755.0 28	560.0 28	422.0 28	343.0 28	249.0 27	126.0 28
1943	3300.0 3	15300.0 4	8340.0 4	5890.0 3	4830.0 1	3670.0 1	3200.0 1	2520.0 2	1820.0 2	973.0 4
1944	17900.0 12	10400.0 11	5380.0 15	3230.0 14	2160.0 13	1490.0 12	1310.0 13	1250.0 10	1150.0 6	736.0 6
1945	11400.0 19	5840.0 23	3240.0 23	2020.0 22	1700.0 18	1430.0 15	1420.0 9	1160.0 12	825.0 17	506.0 12
1946	36200.0 2	15500.0 3	7490.0 5	4280.0 6	2870.0 6	1690.0 10	1310.0 14	1110.0 14	976.0 10	614.0 9
1947	19500.0 9	11000.0 10	5990.0 11	3100.0 16	1890.0 16	1430.0 16	1160.0 17	947.0 19	757.0 20	444.0 17
1948	7910.0 25	4940.0 25	2730.0 24	1700.0 24	1650.0 14	1090.0 22	969.0 21	822.0 21	759.0 19	429.0 20
1949	4010.0 30	3040.0 30	1890.0 29	1150.0 29	620.0 30	367.0 30	291.0 29	235.0 30	231.0 29	149.0 27
1950	11600.0 18	4410.0 21	3330.0 22	1700.0 25	1080.0 26	977.0 24	772.0 24	592.0 24	408.0 25	211.0 25
1951	5330.0 26	3480.0 27	2490.0 25	2200.0 20	1330.0 23	998.0 23	880.0 22	794.0 22	605.0 23	325.0 24
1952	29200.0 5	15900.0 5	6670.0 10	3340.0 12	2100.0 14	1260.0 18	1380.0 11	1180.0 11	915.0 11	463.0 13
1953	4450.0 29	3320.0 28	1810.0 30	1270.0 27	987.0 27	664.0 26	469.0 26	361.0 27	243.0 28	124.0 29
1954	14500.0 14	9380.0 13	5840.0 13	4000.0 9	2760.0 8	2100.0 5	1910.0 5	1770.0 5	1390.0 5	745.0 5
1955	10600.0 20	6910.0 18	3870.0 19	2560.0 17	1590.0 20	1440.0 14	1330.0 12	1270.0 7	1110.0 7	607.0 10
1956	13700.0 15	7130.0 17	4560.0 17	3230.0 13	1920.0 15	1510.0 11	1220.0 15	1010.0 15	836.0 15	567.0 11
1957	18800.0 10	13800.0 6	9250.0 3	5070.0 4	3140.0 5	1900.0 6	1530.0 7	1350.0 6	1080.0 8	669.0 7
1958	24000.0 6	15100.0 7	7150.0 7	3970.0 10	2170.0 12	1190.0 21	871.0 23	692.0 23	648.0 22	367.0 22
1959	25300.0 7	12500.0 9	6760.0 9	4480.0 5	3190.0 4	2010.0 3	2520.0 3	2270.0 3	1780.0 3	1030.0 3
1960	40000.0 1	26300.0 1	13700.0 1	8090.0 1	4550.0 2	2780.0 4	1980.0 4	1810.0 4	1590.0 4	1040.0 2

## STATISTICS OF ANNUAL DISCHARGE FOR WATER YEARS, 1931-36, 1951-65, 1967-74

Units of annual Discharge	Mean	Standard Deviation	Coefficient of Variation	Skew Coefficient	First Order Serial Correlation Coefficient
CFS	504	275	0.55	0.62	0.03
LOGS of CFS	2.627	0.281		-0.758	-0.04

## ARKANSAS RIVER BASIN

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## 07250500 ARKANSAS RIVER AT VAN BUREN, ARK.

LOCATION.--Lat 35°25'42", long 94°21'37", in NE 1/4 NW 1/4 sec.36, T.9 N., R.32 W., Sebastian County, near right bank on downstream side of bridge on U.S. Highways 64 and 71 at Van Buren, 1.3 mi (2.1 km) downstream from Lee Creek, 8.6 mi (13.8 km) downstream from Poteau River, and at mile 353.4 (568.6 km).

DRAINAGE AREA.--150,483 mi<sup>2</sup> (389,751 km<sup>2</sup>), of which 22,241 mi<sup>2</sup> (57,604 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD.--October 1927 to September 1969. Statistical summaries for this station are divided into unregulated and regulated periods.

AVERAGE DISCHARGE.--37 years (1928-64), 30,921 ft<sup>3</sup>/s (875.6 m<sup>3</sup>/s); 6 years (1965-70), 25,533 ft<sup>3</sup>/s (723 m<sup>3</sup>/s).

REMARKS.--Natural flow of stream affected by storage reservoirs and power development.

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

## ARKANSAS RIVER AT VAN BUREN, ARKANSAS

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	
YEAR	NUMBER OF DAYS IN CLASS																																			CFS_DAYS
1928																																				16073480.0
1929																																				18287100.0
1930																																				7166140.0
1931																																				5632650.0
1932																																				10538030.0
1933																																				8712935.0
1934																																				4519330.0
1935																																				17960620.0
1936																																				4309540.0
1937																																				8889500.0
1938																																				11889930.0
1939																																				3869010.0
1940																																				2753557.0
1941																																				11607620.0
1942																																				23816400.0
1943																																				18423880.0
1944																																				12269570.0
1945																																				22971810.0
1946																																				12333950.0
1947																																				14109920.0
1948																																				12777050.0
1949																																				16489300.0
1950																																				15189630.0
1951																																				16775020.0
1952																																				9790450.0
1953																																				4721790.0
1954																																				3093170.0
1955																																				4688034.0
1956																																				2183131.0
1957																																				20122619.0
1958																																				12940390.0
1959																																				7937430.0
1960																																				19055720.0
1961																																				

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	13515	100.0	9	2000.00	413	12761	94.4	18	17000.00	809	5647	41.8	27	140000	267	579	4.2
1	306.00	5	13515	100.0	10	2600.00	416	12348	91.4	19	21000.00	857	4838	35.8	28	180000	161	312	2.3
2	390.00	28	13510	100.0	11	3200.00	575	11932	88.3	20	27000.00	677	3981	29.5	29	230000	81	151	1.1
3	490.00	51	13482	99.8	12	4100.00	874	11357	84.0	21	34000.00	631	3304	24.4	30	290000	35	70	.5
4	620.00	40	13431	99.4	13	5200.00	895	10483	77.6	22	43000.00	639	2673	19.8	31	360000	20	35	.2
5	790.00	80	13391	99.1	14	6600.00	1021	9588	70.9	23	55000.00	471	2034	15.0	32	460000	8	15	.1
6	1000.00	121	13311	98.5	15	8300.00	1121	8567	63.4	24	70000.00	376	1563	11.6	33	580000	6	7	.0
7	1300.00	232	13190	97.6	16	11000.00	703	7446	55.1	25	88000.00	299	1187	8.8	34	740000	1	1	.0
8	1600.00	197	12958	95.9	17	15000.00	1096	6743	49.9	26	110000.00	309	888	6.6					



LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## ARKANSAS RIVER AT VAN BUREN, ARKANSAS

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1929	3380.00 24	3380.00 22	3380.00 21	3810.00 19	4800.00 20	5800.00 21	8350.00 24	15500.00 29	24000.00 30	42700.00 24
1930	3070.00 22	3100.00 21	3140.00 18	3340.00 18	4970.00 22	6220.00 23	7020.00 19	7450.00 19	9620.00 16	43100.00 25
1931	2380.00 17	2380.00 15	2390.00 13	2460.00 13	2500.00 13	2700.00 10	5140.00 12	5590.00 11	8510.00 11	19400.00 11
1932	1260.00 9	1300.00 9	1360.00 10	1550.00 10	2060.00 11	4270.00 14	6510.00 18	7200.00 17	11300.00 20	27400.00 18
1933	1850.00 7	1925.00 6	1979.00 6	1120.00 6	1290.00 6	1730.00 6	2090.00 6	2600.00 5	9860.00 18	16700.00 9
1934	2440.00 18	2490.00 17	2570.00 15	2670.00 15	3280.00 15	5840.00 22	10100.00 25	9430.00 23	10600.00 19	22300.00 14
1935	407.00 2	424.00 2	451.00 2	480.00 2	567.00 2	1120.00 4	2640.00 8	6050.00 12	9480.00 14	20300.00 12
1936	2000.00 12	2450.00 16	3340.00 19	3960.00 20	4350.00 18	5160.00 18	5920.00 15	12100.00 26	14800.00 23	43100.00 26
1937	710.00 6	717.00 4	734.00 4	768.00 4	860.00 4	1100.00 2	2060.00 5	6350.00 14	8710.00 12	17700.00 10
1938	2340.00 15	2340.00 14	2430.00 14	2550.00 14	3830.00 17	5020.00 16	5970.00 16	6230.00 13	8710.00 13	22900.00 15
1939	2160.00 14	2180.00 12	2210.00 12	2240.00 12	2260.00 12	2700.00 11	3260.00 9	3350.00 7	5040.00 7	23600.00 16
1940	559.00 4	740.00 5	839.00 5	894.00 5	924.00 5	1140.00 5	1250.00 2	1260.00 2	1510.00 2	8530.00 3
1941	1280.00 10	1320.00 11	1470.00 11	1580.00 11	1750.00 10	2290.00 9	7550.00 22	8550.00 22	9600.00 15	15900.00 8
1942	4300.00 28	4370.00 28	4480.00 26	4800.00 24	10200.00 32	13500.00 32	22500.00 34	24700.00 32	45100.00 36	55100.00 33
1943	7640.00 34	7960.00 34	8670.00 34	9540.00 34	11800.00 34	14300.00 33	21700.00 33	25400.00 33	29900.00 31	47700.00 31
1944	2660.00 19	2750.00 18	2840.00 17	3100.00 17	3600.00 16	4650.00 15	6000.00 17	6790.00 15	7340.00 9	45800.00 29
1945	5250.00 33	5870.00 33	6650.00 33	7240.00 33	10200.00 33	12000.00 31	12700.00 30	17400.00 30	19700.00 27	46000.00 30
1946	3850.00 27	3960.00 26	4200.00 24	5530.00 26	6770.00 29	7950.00 26	16700.00 31	21900.00 31	31900.00 34	60200.00 35
1947	3120.00 23	3540.00 23	3920.00 22	4090.00 22	4520.00 19	5350.00 19	5690.00 14	7400.00 18	15400.00 25	24900.00 17
1948	2730.00 20	2970.00 20	3350.00 20	3980.00 21	4060.00 21	5040.00 21	5430.00 13	5560.00 10	7060.00 8	35900.00 21
1949	4720.00 31	5050.00 31	5520.00 31	5610.00 27	5810.00 24	7200.00 25	8040.00 23	8360.00 9	22700.00 29	45000.00 27
1950	4960.00 32	5220.00 32	5750.00 32	6460.00 32	6620.00 27	8130.00 27	10100.00 26	11600.00 25	15000.00 24	36000.00 22
1951	2380.00 16	2960.00 19	4330.00 25	5820.00 29	6430.00 25	6770.00 24	7030.00 20	8060.00 20	19900.00 28	42200.00 23
1952	7860.00 35	8140.00 35	10300.00 35	14100.00 35	17600.00 35	18700.00 34	21100.00 32	27900.00 34	30900.00 32	52300.00 32
1953	1310.00 11	1310.00 10	1330.00 9	1350.00 8	1350.00 8	1750.00 7	2300.00 7	2680.00 6	3180.00 5	13800.00 7
1954	1120.00 8	1180.00 8	1280.00 8	1390.00 8	1730.00 9	3070.00 12	4070.00 11	4360.00 9	5020.00 6	12200.00 5
1955	478.00 3	482.00 3	523.00 3	553.00 3	682.00 3	1120.00 3	1640.00 3	2050.00 4	2500.00 3	10100.00 4
1956	2020.00 13	2280.00 13	2600.00 16	2720.00 16	2930.00 14	3460.00 13	3550.00 10	4140.00 8	7610.00 10	12400.00 6
1957	308.00 1	312.00 1	353.00 1	397.00 1	480.00 1	547.00 1	791.00 1	1020.00 1	1480.00 1	4700.00 1
1958	4620.00 30	4800.00 29	5180.00 29	5710.00 28	6740.00 28	10800.00 30	11700.00 28	12200.00 27	13900.00 21	63500.00 36
1959	3640.00 26	3840.00 25	4020.00 23	4350.00 23	5340.00 23	5760.00 20	7050.00 21	7030.00 16	9820.00 17	30400.00 19
1960	2860.00 21	3660.00 24	5070.00 28	6170.00 31	7980.00 31	19200.00 35	27800.00 35	29300.00 35	31700.00 33	45800.00 28
1961	4340.00 29	4900.00 30	5190.00 30	5910.00 30	7020.00 30	9750.00 29	12500.00 29	14500.00 28	14400.00 22	30800.00 20
1962	8840.00 36	9950.00 36	11500.00 36	14400.00 36	23200.00 36	28700.00 36	28900.00 36	35300.00 36	44000.00 35	56900.00 34
1963	3570.00 25	4250.00 27	4600.00 27	5140.00 25	6550.00 26	8440.00 28	10200.00 27	11100.00 24	16600.00 26	20400.00 13
1964	695.00 5	995.00 7	1050.00 7	1280.00 7	1570.00 8	1750.00 8	1840.00 4	1990.00 3	2800.00 4	8160.00 2

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## ARKANSAS RIVER AT VAN BUREN, ARKANSAS

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1928	241000.0 18	228000.0 18	198000.0 18	175000.0 14	130000.0 15	90000.0 15	88600.0 12	75500.0 13	60400.0 12	43900.0 10
1929	315000.0 11	306000.0 9	287000.0 7	243000.0 7	181000.0 7	150000.0 5	125000.0 5	106000.0 5	79600.0 5	50100.0 6
1930	157000.0 23	153000.0 22	148000.0 20	130000.0 20	90500.0 21	64000.0 20	44700.0 25	35000.0 25	32000.0 26	19600.0 26
1931	81200.0 35	70100.0 35	53000.0 35	41300.0 34	33100.0 32	29900.0 30	27800.0 28	26300.0 29	22400.0 28	15400.0 27
1932	184000.0 21	170000.0 21	147000.0 21	132000.0 19	97100.0 19	70400.0 19	62900.0 18	53100.0 19	38900.0 22	28800.0 21
1933	278000.0 15	270000.0 15	209000.0 16	122000.0 21	83400.0 22	61800.0 22	48800.0 22	39400.0 24	34500.0 23	23900.0 24
1934	114000.0 31	112000.0 28	92100.0 28	54300.0 31	34600.0 31	26300.0 33	20300.0 34	17000.0 34	15300.0 32	12400.0 31
1935	403000.0 6	387000.0 6	347000.0 5	272000.0 5	231000.0 3	179000.0 4	132000.0 4	117000.0 3	83300.0 3	49200.0 7
1936	140000.0 27	108000.0 29	78900.0 31	57800.0 29	37000.0 30	31700.0 29	24400.0 31	20000.0 31	14800.0 33	11800.0 32
1937	150000.0 26	136000.0 26	109000.0 25	86400.0 24	61700.0 26	41700.0 27	33300.0 27	30300.0 26	32300.0 25	24400.0 23
1938	369000.0 8	350000.0 7	271000.0 8	154000.0 17	118000.0 16	80300.0 17	75600.0 16	73700.0 14	57200.0 15	32600.0 19
1939	73400.0 36	66000.0 36	50700.0 36	42200.0 32	29500.0 34	28000.0 32	25200.0 30	21600.0 30	17700.0 30	10600.0 33
1940	98900.0 33	86900.0 33	55500.0 33	31500.0 37	25000.0 36	15800.0 36	14700.0 36	13700.0 36	13400.0 34	7520.0 36
1941	304000.0 12	293000.0 12	237000.0 14	150000.0 18	101000.0 17	87900.0 16	71200.0 17	56600.0 18	47400.0 18	31800.0 20
1942	480000.0 4	469000.0 3	402000.0 3	293000.0 4	213000.0 5	148000.0 6	109000.0 7	85700.0 7	66400.0 9	65300.0 1
1943	784000.0 1	672000.0 1	542000.0 1	487000.0 1	332000.0 1	190000.0 2	136000.0 3	107000.0 4	80600.0 4	50500.0 5
1944	232000.0 19	226000.0 19	208000.0 17	179000.0 12	159000.0 10	115000.0 10	90600.0 10	78200.0 12	57200.0 16	33500.0 18
1945	637000.0 2	596000.0 2	497000.0 2	347000.0 2	219000.0 4	183000.0 3	152000.0 2	135000.0 2	103000.0 2	62900.0 2
1946	282000.0 13	271000.0 14	239000.0 13	173000.0 15	98300.0 18	58400.0 24	48700.0 23	49000.0 21	45100.0 19	33800.0 17
1947	252000.0 16	232000.0 17	179700.0 19	166000.0 16	139000.0 14	129000.0 8	101000.0 8	81100.0 9	58000.0 14	38700.0 13
1948	328000.0 9	306000.0 10	268000.0 9	208000.0 9	153000.0 12	125000.0 9	89000.0 11	72900.0 15	61000.0 11	34900.0 15
1949	316000.0 10	295000.0 11	256000.0 10	200000.0 10	158000.0 11	111000.0 11	87500.0 13	84100.0 8	78700.0 6	45200.0 9
1950	386000.0 7	350000.0 8	246000.0 11	175000.0 13	140000.0 13	103000.0 13	83300.0 14	80100.0 10	64500.0 10	41600.0 12
1951	247000.0 17	241000.0 16	223000.0 15	195000.0 11	183000.0 15	132000.0 7	113000.0 6	92200.0 6	74400.0 7	46600.0 8
1952	135000.0 28	123000.0 27	104000.0 27	82200.0 25	66000.0 25	61800.0 23	50900.0 21	44700.0 22	39400.0 21	26700.0 22
1953	121000.0 29	100000.0 31	82300.0 29	57000.0 30	53200.0 27	42600.0 26	36000.0 26	28500.0 27	22500.0 27	12900.0 29
1954	193000.0 20	170000.0 20	124000.0 24	81300.0 26	48300.0 28	29700.0 31	21500.0 32	17200.0 33	13400.0 35	8470.0 34
1955	99400.0 32	95100.0 32	79900.0 30	72000.0 28	46900.0 29	35600.0 28	27100.0 29	26400.0 28	20700.0 29	12800.0 30
1956	116000.0 30	104000.0 30	71000.0 32	41400.0 33	25100.0 35	14700.0 37	11100.0 37	9110.0 37	7610.0 37	5960.0 37
1957	485000.0 3	460000.0 4	390000.0 4	324000.0 4	279000.0 2	219000.0 1	183000.0 1	151000.0 1	105000.0 1	55100.0 3
1958	158000.0 22	152000.0 23	134000.0 23	111000.0 23	93800.0 20	74300.0 18	61500.0 19	62200.0 17	57100.0 17	35500.0 14
1959	154000.0 25	145000.0 24	137000.0 22	119000.0 22	73900.0 24	43600.0 25	45700.0 24	39400.0 23	33700.0 24	21700.0 25
1960	417000.0 5	402000.0 5	343000.0 6	244000.0 6	169000.0 9	103000.0 14	79800.0 15	70100.0 16	59900.0 13	52100.0 4
1961	281000.0 14	272000.0 13	243000.0 12	212000.0 8	172000.0 8	110000.0 12	91400.0 9	80100.0 11	70000.0 8	43600.0 11
1962	156000.0 24	141000.0 25	108000.0 26	79300.0 27	77000.0 23	63100.0 21	57700.0 20	49900.0 20	43900.0 20	34100.0 16
1963	61000.0 37	57200.0 37	48100.0 37	36200.0 36	31900.0 33	24400.0 34	21500.0 33	19100.0 32	16400.0 31	13000.0 28
1964	82700.0 34	75400.0 34	55300.0 34	36900.0 35	24100.0 37	18900.0 35	17600.0 35	14900.0 35	12700.0 36	7740.0 33

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

## ARKANSAS RIVER AT VAN BUREN, ARKANSAS

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34		
YFAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS		
1965					4	3	5	10	3	4	2	2	1	3	5	11	6	18	26	44	35	33	27	21	11	4	8	14	7	10	10	13	8	11	3	3	8669760.0
1966																																				4712200.0	
1967																																				4566680.0	
1968																																				12316220.0	
1969																																				15724150.0	
1970																																				9935950.0	

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	2191	100.0	9	3500.00	36	2038	93.0	18	13000.0	152	1334	60.9	27	46000	60	362	16.5					
1	1110.00	2	2191	100.0	10	4000.00	30	2002	91.4	19	15000.0	131	1182	53.9	28	53000	66	302	13.7					
2	1300.00	5	2189	99.9	11	4600.00	62	1972	90.0	20	17000.0	101	1051	48.0	29	61000	70	236	10.7					
3	1500.00	10	2184	99.7	12	5400.00	58	1910	87.2	21	19000.0	131	950	43.4	30	71000	59	166	7.5					
4	1700.00	13	2174	99.2	13	6200.00	65	1852	84.5	22	22000.0	121	819	37.4	31	81000	58	107	4.8					
5	2000.00	25	2161	98.6	14	7100.00	75	1787	81.6	23	26000.0	86	698	31.9	32	94000	26	49	2.2					
6	2300.00	25	2136	97.5	15	8200.00	78	1712	78.1	24	30000.0	75	612	27.9	33	110000	21	23	1.0					
7	2600.00	52	2111	96.3	16	9500.00	114	1634	74.6	25	34000.0	98	537	24.5	34	130000	2	2	.0					
8	3000.00	21	2059	94.0	17	11000.00	186	1520	69.4	26	40000.0	77	439	20.0										

## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## ARKANSAS RIVER AT VAN BUREN, ARKANSAS

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1966	2600.00	3 3090.00	3 3800.00	3 4020.00	2 4560.00	2 5430.00	2 6560.00	2 7240.00	2 11700.00	2 22100.00
1967	1110.00	1 1260.00	1 1580.00	1 1800.00	1 2180.00	1 2480.00	1 2610.00	1 2990.00	1 3950.00	1 9210.00
1968	2010.00	2 2220.00	2 2460.00	2 4510.00	3 9150.00	4 13200.00	5 15900.00	5 17600.00	5 18600.00	4 25500.00
1969	5180.00	5 6670.00	5 8430.00	5 8810.00	5 9610.00	5 11800.00	4 14600.00	4 15600.00	4 23300.00	5 38400.00
1970	3840.00	4 4680.00	4 6310.00	4 7770.00	4 8270.00	3 10800.00	3 13000.00	3 13500.00	3 16700.00	3 31900.00

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## ARKANSAS RIVER AT VAN BUREN, ARKANSAS

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL										
1965	117000.0	3	115000.0	3	106000.0	3	87700.0	3	58500.0	4	40000.0	4	43800.0	4	39200.0	4	32900.0	4	23800.0	4
1966	66200.0	6	63700.0	6	55000.0	6	44800.0	6	34900.0	6	25400.0	6	19700.0	6	19500.0	6	16400.0	6	12900.0	5
1967	76000.0	5	73400.0	5	69100.0	5	63500.0	5	48000.0	5	36900.0	5	28500.0	5	26300.0	5	21100.0	5	12500.0	6
1968	128000.0	2	123000.0	2	111000.0	2	94100.0	2	76400.0	3	66100.0	3	65600.0	2	58100.0	2	48300.0	2	33700.0	2
1969	100000.0	4	95500.0	4	92700.0	4	85700.0	4	78800.0	2	73100.0	2	69900.0	1	67000.0	1	60200.0	1	43100.0	1
1970	144000.0	1	134000.0	1	117000.0	1	116000.0	1	108000.0	1	74800.0	1	62800.0	3	52200.0	3	38500.0	3	27200.0	3

## ARKANSAS RIVER BASIN

07250550 ARKANSAS RIVER AT DAM NO. 13, NEAR VAN BUREN, ARK.

LOCATION.--Lat 35°20'56", long 94°17'54", in sec.28, T.8 N., R.31 W., Sebastian County, in Dam No. 13 control house on right bank and at mile 308.9 (497.0 km).

DRAINAGE AREA.--150,547 mi<sup>2</sup> (389,917 km<sup>2</sup>).

PERIOD OF RECORD.--October 1969 to September 1974.

AVERAGE DISCHARGE.--4 years (1971-74), 43,675 ft<sup>3</sup>/s (1.237 m<sup>3</sup>/s).

REMARKS.--Beginning April 26, 1970, daily discharge computed from relation between discharge, head, and gate openings. Flow regulated by many locks, dams, and reservoirs upstream.

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

ARKANSAS RIVER AT DAM NO. 13, NEAR VAN BUREN, ARK.

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34		
YEAR	NUMBER OF DAYS IN CLASS																																		CFS.DAYS		
1971	1																																				7287786.0
1972										1	1		1	1	5	3	4	13	11	8	15	14	33	60	51	48	42	17	8	12	4	8	4	2			7224541.0
1973														2	1					4	5	3	2	15	10	26	23	41	26	21	23	35	30	71	25		25785328.0
1974											1									1		3	2	4	3	13	14	18	35	108	35	28	46	49	3	2	23511712.0

CFS\_DAYS  
7267786.0  
7224541.0  
25785328.0  
23511712.0

CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT
0	0.00	0	1461	100.0	9	160.00	1	1460	99.9	18	2100.0	18	1423	97.4	27	28000	114	669	45.7	27	28000	114	669	45.7
1	16.00	1	1461	100.0	10	210.00	2	1459	99.9	19	2800.0	23	1405	96.2	28	37000	160	555	37.9	28	37000	160	555	37.9
2	21.00	0	1460	99.9	11	280.00	1	1457	99.7	20	3700.0	36	1382	94.6	29	50000	77	395	27.0	29	50000	77	395	27.0
3	28.00	0	1460	99.9	12	380.00	1	1456	99.7	21	5000.0	37	1346	92.1	30	66000	76	318	21.7	30	66000	76	318	21.7
4	38.00	0	1460	99.9	13	500.00	3	1455	99.6	22	6700.0	95	1309	89.6	31	88000	85	242	16.5	31	88000	85	242	16.5
5	50.00	0	1460	99.9	14	670.00	6	1452	99.4	23	8900.0	112	1214	83.1	32	120000	125	157	10.7	32	120000	125	157	10.7
6	67.00	0	1460	99.9	15	890.00	4	1446	99.0	24	12000.0	142	1102	75.4	33	160000	30	32	2.1	33	160000	30	32	2.1
7	90.00	0	1460	99.9	16	1200.00	5	1442	98.7	25	16000.0	143	960	65.7	34	210000	2	2	.1	34	210000	2	2	.1
8	120.00	0	1460	99.9	17	1600.00	14	1437	98.4	26	21000.0	148	817	55.9										

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

ARKANSAS RIVER AT DAM NO. 13, NEAR VAN BUREN, ARK.

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1972	419.00	5 2520.00	2 3480.00	2 4750.00	2 7670.00	2 10000.00	2 14800.00	2 15800.00	2 15600.00	2 21900.00
1973	200.00	1 826.00	1 2220.00	1 2900.00	1 5320.00	1 6390.00	1 8270.00	1 8890.00	1 10700.00	1 38500.00
1974	320.00	2 5690.00	3 8650.00	3 9590.00	3 10800.00	3 13000.00	3 17000.00	3 26400.00	3 48500.00	3 76800.00

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

ARKANSAS RIVER AT DAM NO. 13, NEAR VAN BUREN, ARK.

YEAR	1		3		7		15		30		60		90		120		183		ANNUAL	
1971	129000.0	4	101000.0	4	89300.0	4	75200.0	4	55800.0	4	36300.0	4	26900.0	4	25900.0	4	24300.0	4	20000.0	3
1972	161000.0	3	146000.0	3	125000.0	3	116000.0	3	85300.0	3	54700.0	3	44000.0	3	37600.0	3	28200.0	3	19700.0	4
1973	209000.0	2	202000.0	2	194000.0	1	179000.0	1	170000.0	1	162000.0	1	153000.0	1	136000.0	1	114000.0	1	70600.0	1
1974	249000.0	1	222000.0	1	170000.0	2	150000.0	2	126000.0	2	99000.0	2	95700.0	2	82800.0	2	79500.0	2	64400.0	2

## 265

LOCATION.--Lat 34°24'47", long 99°44'03", Hardeman County, on right bank at downstream side of bridge on State Highway 283, 8 mi (13 km) north of Quanah, 30 mi (48 km) upstream from Salt Fork Red River, and at mile 1,030 (1,657 km).

PERIOD OF RECORD.--November 1959 to September 1974.

AVERAGE DISCHARGE.--14 years (1961-74), 142 ft<sup>3</sup>/s (4.02 m<sup>3</sup>/s).

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

RED RIVER NEAR QUANAH, TEXAS

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS
1961										4	1	8	13	24	24	20	15	26	19	40	46	39	22	16	15	9	9	4	3	4	2	2	1	1	103099.2
1962										1	23	22	34	24	18	29	44	38	34	28	15	12	8	6	6	3	6	4	6	2	2	1			68670.2
1963							18	12	3	10	15	15	21	16	18	12	25	46	56	36	15	9	12	5	6	3	1	4	4	2	1			35613.4	
1964	43						32	13	7	15	11	48	26	36	33	34	6	10	10	12	6	7	4	5	3	2	3			1	1			18924.7	
1965	15						20	11	7	13	8	23	26	44	45	28	25	29	13	9	7	7	6	5	3	2	2	3	3	1	3	2	2		83305.6
1966						2	6	5	17	16	28	28	13	25	40	46	30	16	20	16	13	11	7	5	4	7	3	2			1	2	2		75673.4
1967	5	5	4	2	7	7	12	8	5	16	13	29	23	92	38	24	13	8	12	9	12	10	5	1	4					1				8710.5	
1968	12				1	4	3	6	10	9	18	22	18	17	28	22	34	24	28	27	29	12	9	5	7	6	3	3	2	1	1	3	1	1	43563.4
1969	34	1	2	1	1	2	2	1	6	2	22	24	21	26	23	41	22	25	28	18	22	8	9	5	5	5	6	2	2	1	2	1			43940.3
1970	72	13	2	1	5	1	14	3	2	14	7	24	23	19	18	24	34	15	19	18	16	14	4	4	2					1				12869.6	
1971	35	2	1		4	3	12	26	20	30	20	33	44	36	11	6	8	9	8	9	5	7	4	4	4	5	5	6	2	3	2		1		54446.4
1972	37	9	5	3	10	3	8	8	6	18	5	8	13	18	21	19	16	21	17	28	25	19	18	9	9	6	4	1	1	1	1				28297.5
1973	26	11	6	3	5	2	4	10	8	7	2	4	15	17	23	23	23	28	15	18	22	13	6	8	8	6	4	3	1	1			1		43224.7
1974			1	2	1	1	3	4	14	21	5	12	25	50	60	28	16	15	10	14	18	10	13	11	7	6	9	3	3	1		1	1		52755.8
CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	
0	0.00	279	5113	100.0	9	0.40	180	4		18	22.0	286	1654	32.3	27	1100	37	124	2.4																
1	0.01	41	4834	94.5	10	0.70	124	4198	82.1	19	33.0	302	1368	26.8	28	1700	31	87	1.7																
2	0.02	21	4793	93.7	11	1.00	289	4074	79.7	20	51.0	276	1066	20.8	29	2600	19	56	1.0																
3	0.03	12	4772	93.3	12	1.60	321	3785	74.0	21	79.0	200	790	15.5	30	3900	16	37	.7																
4	0.04	34	4760	93.1	13	2.50	437	3464	67.7	22	120.0	150	590	11.5	31	6100	10	21	.4																
5	0.07	23	4726	92.4	14	3.80	394	3027	59.2	23	190.0	102	440	8.6	32	9400	9	11	.2																
6	0.10	128	4703	92.0	15	5.90	321	2633	51.5	24	290.0	83	338	6.6	33	15000	2	2	.0																
7	0.20	109	4575	89.5	16	9.00	331	2312	45.2	25	450.0	70	255	5.0	34																				
8	0.30	88	4466	87.3	17	14.00	327	1981	38.7	26	690.0	61	185	3.6																					

## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## RED RIVER NEAR QUANAH, TEXAS

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1962	0.50 12	0.63 12	1.51 13	2.81 13	7.42 13	8.53 10	10.90 9	24.00 11	30.40 10	93.60 5
1963	0.90 13	1.10 13	1.39 12	1.46 12	3.25 11	20.50 13	22.20 13	26.70 12	32.70 11	189.00 11
1964	0.10 10	0.10 10	0.10 10	0.14 10	1.41 7	2.86 6	4.96 4	5.13 3	15.40 4	96.80 6
1965	0.00 1	0.00 1	0.00 1	0.00 1	0.14 2	0.36 3	6.08 6	9.30 6	16.00 5	52.00 3
1966	0.00 2	0.00 2	0.01 9	0.11 8	0.20 3	0.31 2	11.10 10	13.50 8	75.70 13	258.00 13
1967	0.19 11	0.20 11	0.24 11	0.77 11	1.52 8	3.07 8	3.78 2	3.64 2	4.80 2	172.00 9
1968	0.00 3	0.00 3	0.00 2	0.12 9	1.61 9	2.56 4	5.71 5	7.57 5	12.40 3	34.30 2
1969	0.00 4	0.00 4	0.00 3	0.01 6	3.50 12	9.26 11	16.00 11	15.00 9	23.80 6	257.00 12
1970	0.00 5	0.00 5	0.00 4	0.00 2	0.60 4	2.69 7	9.34 8	9.77 7	24.70 7	119.00 8
1971	0.00 6	0.00 6	0.00 5	0.00 3	0.00 1	0.02 1	0.23 1	1.00 1	1.47 1	23.80 1
1972	0.00 7	0.00 7	0.00 6	0.00 4	0.80 6	2.70 5	6.71 7	27.30 13	57.50 12	177.00 10
1973	0.00 8	0.00 8	0.00 7	0.02 7	2.38 10	19.80 12	20.30 12	22.90 10	25.00 8	73.70 4
1974	0.00 9	0.00 9	0.00 8	0.00 5	0.68 5	3.97 9	4.82 3	5.20 4	28.80 9	108.00 7

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## RED RIVER NEAR QUANAH, TEXAS

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1961	21100.0 2	13000.0 2	6870.0 2	3710.0 1	1920.0 1	986.0 1	738.0 2	569.0 3	411.0 3	282.0 1
1962	13400.0 5	6330.0 5	3280.0 5	1970.0 5	1100.0 5	900.0 4	610.0 4	492.0 5	344.0 4	188.0 5
1963	5910.0 10	3680.0 8	1800.0 8	927.0 8	836.0 7	420.0 8	295.0 8	269.0 8	178.0 10	106.0 10
1964	6610.0 9	2660.0 10	1260.0 10	640.0 11	334.0 12	168.0 12	113.0 12	130.0 12	87.9 12	51.7 12
1965	14800.0 3	9980.0 3	6370.0 3	3070.0 3	1920.0 2	969.0 3	711.0 3	634.0 2	439.0 2	228.0 3
1966	14200.0 4	6860.0 4	3140.0 6	2460.0 4	1480.0 4	795.0 5	565.0 5	503.0 4	338.0 5	207.0 4
1967	2820.0 13	1140.0 14	527.0 14	279.0 14	167.0 14	104.0 14	73.6 14	60.3 14	43.1 14	23.9 14
1968	22700.0 1	15100.0 1	7070.0 1	3370.0 2	1720.0 3	982.0 2	776.0 1	722.0 1	487.0 1	256.0 2
1969	7210.0 8	3200.0 9	1440.0 9	678.0 10	629.0 8	336.0 9	241.0 10	240.0 9	214.0 8	120.0 8
1970	2600.0 14	1160.0 13	568.0 13	335.0 13	188.0 13	132.0 13	99.9 13	75.8 13	53.9 13	35.3 13
1971	9470.0 7	4370.0 7	2210.0 7	1200.0 7	627.0 9	564.0 7	386.0 7	435.0 6	296.0 6	149.0 6
1972	4140.0 12	2280.0 11	1100.0 11	711.0 9	407.0 11	230.0 11	177.0 11	141.0 11	97.1 11	77.3 11
1973	4480.0 11	2100.0 12	923.0 12	569.0 12	410.0 10	297.0 10	268.0 9	206.0 10	193.0 9	118.0 9
1974	9580.0 6	5770.0 6	3290.0 4	1720.0 6	1040.0 8	612.0 6	433.0 6	334.0 7	260.0 7	145.0 7

## STATISTICS OF ANNUAL DISCHARGE FOR WATER YEARS, 1961-65, 1967-74

Units of annual Discharge	Mean	Standard Deviation	Coefficient of Variation	Skew Coefficient	First Order Serial Correlation Coefficient
CFS	142	81.5	0.57	0.22	-0.20
LOGS of CFS	2.060	0.325		-0.893	-0.338



## ARKANSAS RIVER BASIN

267

07299670 GROESBECK CREEK AT STATE HIGHWAY 283 NEAR QUANAH, TEX.

LOCATION.--Lat 34°21'16", long 99°44'24", Hardeman County, near left bank on downstream side of bridge on State Highway 283, 2 mi (3 km) downstream from confluence of North and South Groesbeck Creeks, 4 mi (6 km) north of Quanah, and 9 mi (14 km) upstream from mouth.

DRAINAGE AREA.--303 mi<sup>2</sup> (785 km<sup>2</sup>).

PERIOD OF RECORD.--November 1961 to September 1974.

AVERAGE DISCHARGE.--12 years (1963-74), 12.4 ft<sup>3</sup>/s (0.351 m<sup>3</sup>/s).

REMARKS.--Several diversions upstream from station for farm and ranch use and for a gypsum wallboard plant.

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

GROESBECK CREEK AT STATE HIGHWAY 283, NEAR QUANAH, TEXAS

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34		
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS		
1963								2	1			4	3	13	10	13	47	23	146	82	7	5	2	1	1	2	1		1	1							3238.0
1964	76									1	3		3	13	11	35	122	77	20	1	1	1			1												1087.6
1965	45							14	13	6	11	8	26	23	105	74	12	7	4	2			1	3	1	1	1	1	1				1	1			4407.6
1966	21	1	4	1	2	2		7	2	2	1	2	9	50	34	63	98	37	8	4	1	4	1	3	1	1	2	1		1	1			1		9565.4	
1967									1	14	19	41	70	77	112	18	2			2		1				1		2	1							1508.5	
1968									5	11	33	19	26	114	109	20	7	8	2	7	1			2			1									1421.0	
1969	24		1		1			13	5	6	15	15	41	115	48	16	7	4	3	1	2					1	1	1		2			1	1		3257.9	
1970	5	1			1	1		17	13	12	9	19	18	13	102	138	5	2			2	1	1	1	2		1			1						1479.9	
1971	30	1	4	1	2	2		11	3	3	15	14	27	179	36	5	5	6	1	3	1	1	3		2		3		3	2	1	1				5142.7	
1972						1			2	2	5	11	12	54	171	76	13	1	2	1	4	3	2	1	1	1	1	1	1							2171.9	
1973													10	59	37	130	50	25	8	7	4	3	6	6	4	5	4	2	1	1		1	2			7914.2	
1974													1	4	18	137	140	27	5	1	4	5	2	3	2	1	5	2	2	1	2		2	1		13140.2	

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	201	4383	100.0	9	0.30	43	4047	92.3	18	7.7	116	327	7.5	27	220	10	41	.9					
1	0.01	3	4182	95.4	10	0.40	114	4004	91.4	19	11.0	38	211	4.8	28	310	9	31	.7					
2	0.02	9	4179	95.3	11	0.60	113	3890	88.8	20	16.0	24	173	3.9	29	450	6	22	.5					
3	0.03	2	4170	95.1	12	0.80	237	3777	86.2	21	23.0	22	149	3.4	30	650	6	16	.3					
4	0.04	6	4166	95.1	13	1.20	743	3540	80.8	22	34.0	21	127	2.9	31	940	5	10	.2					
5	0.06	6	4162	95.0	14	1.80	785	2797	63.8	23	49.0	18	106	2.4	32	1400	3	5	.1					
6	0.09	0	4156	94.8	15	2.50	945	2012	45.9	24	71.0	16	88	2.0	33	2000	2	2	.0					
7	0.10	64	4156	94.8	16	3.70	455	1067	24.3	25	100.0	13	72	1.6	34									
8	0.20	45	4092	93.4	17	5.30	285	612	14.0	26	150.0	18	59	1.3										

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

GROESBECK CREEK AT STATE HIGHWAY 283, NEAR QUANAH, TEXAS

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1963	1.00 12	1.47 12	1.97 12	2.16 12	4.96 12	5.55 12	6.89 12	6.97 12	7.52 10	37.00 12
1964	0.10 8	0.13 7	0.50 9	0.96 10	1.20 10	2.27 10	3.28 10	3.35 10	3.55 8	6.99 7
1965	0.00 1	0.60 1	0.00 1	0.00 1	0.00 1	0.00 1	0.20 1	0.94 3	1.94 4	2.96 1
1966	0.00 2	0.00 2	0.00 2	0.00 2	0.00 2	0.33 3	1.14 5	1.63 5	19.10 12	33.20 11
1967	0.00 3	0.00 3	0.00 3	0.00 3	0.52 7	1.15 8	1.68 6	2.47 8	2.58 6	4.49 5
1968	0.21 10	0.46 10	0.53 10	0.56 8	0.68 8	0.87 7	1.12 4	1.23 4	1.43 3	3.72 4
1969	0.19 9	0.21 9	0.28 7	0.32 7	0.38 6	0.46 6	0.55 3	0.73 2	1.00 2	3.71 3
1970	0.00 4	0.00 4	0.00 4	0.00 4	0.20 5	0.43 5	1.73 7	1.87 6	2.52 5	9.48 8
1971	0.00 5	0.00 5	0.11 6	0.16 6	0.19 4	0.26 2	0.44 2	0.59 1	0.95 1	3.50 2
1972	0.00 6	0.00 6	0.00 5	0.00 5	0.00 3	0.36 4	2.03 8	2.16 7	4.58 9	16.60 9
1973	0.06 7	0.18 8	0.46 8	0.63 9	1.06 9	1.77 9	2.53 9	2.70 9	3.30 7	5.17 6
1974	0.99 11	1.00 11	1.17 11	1.26 11	1.47 11	3.53 11	3.68 11	3.73 11	9.01 11	23.70 10

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

GROESBECK CREEK AT STATE HIGHWAY 283, NEAR QUANAH, TEXAS

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1963	386.0 10	211.0 9	92.5 9	44.8 8	25.4 9	14.1 10	10.9 10	11.1 7	10.5 7	8.9 7
1964	74.0 12	28.8 12	15.6 12	9.4 12	5.3 12	4.5 12	4.2 12	4.1 12	3.8 12	3.0 12
1965	1980.0 3	1050.0 3	452.0 3	211.0 4	106.0 4	54.5 5	36.4 5	27.9 5	20.4 5	12.1 5
1966	6070.0 1	2320.0 1	1010.0 2	475.0 2	240.0 2	122.0 2	89.3 2	68.1 2	46.1 2	26.2 2
1967	265.0 11	98.7 11	43.9 11	21.4 11	17.9 11	9.8 11	7.4 11	8.1 11	6.0 11	4.1 9
1968	504.0 7	222.0 8	101.0 8	50.0 8	26.4 8	15.0 9	11.2 8	8.9 8	6.5 10	3.9 11
1969	1240.0 5	542.0 5	236.0 6	111.0 6	90.6 6	45.9 6	30.8 6	24.1 6	16.4 6	8.9 6
1970	404.0 8	161.0 10	70.7 10	41.6 10	23.7 10	15.3 8	11.1 9	8.9 9	6.7 8	4.1 10
1971	1060.0 6	530.0 6	339.0 5	224.0 3	131.0 3	68.5 3	45.7 3	39.1 4	26.7 4	14.1 4
1972	396.0 9	239.0 7	109.0 7	52.7 7	28.1 7	15.6 7	11.3 7	8.9 10	6.6 9	5.9 8
1973	1390.0 4	690.0 4	353.0 4	188.0 5	104.0 5	56.1 4	41.2 4	48.8 3	39.3 3	21.7 3
1974	4080.0 2	1710.0 2	1170.0 1	570.0 1	266.0 1	145.0 1	97.6 1	81.7 1	62.8 1	36.0 1

## STATISTICS OF ANNUAL DISCHARGE FOR WATER YEARS, 1963-65, 1967-74

Units of annual Discharge	Mean	Standard Deviation	Coefficient of Variation	Skew Coefficient	First Order Serial Correlation Coefficient
CFS	12.4	10.5	0.84	1.30	0.22
LOGS of CFS	0.959	0.357		0.291	0.025

## RED RIVER BASIN

07300000 SALT FORK RED RIVER NEAR WELLINGTON, TEX.

LOCATION.--Lat 34°57'27", long 100°13'14", Collingsworth County, near center of stream on downstream side of bridge on U.S. Highway 83, 4 mi (6 km) downstream from Fort Worth and Denver (Burlington) Railway Co. bridge, 4.5 mi (7.2 km) south of Lutie, and 7.2 mi (11.6 km) north of Wellington.

DRAINAGE AREA.--1,222 mi<sup>2</sup> (3,165 km<sup>2</sup>), of which 209 mi<sup>2</sup> (541 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD.--July 1952 to September 1974. Statistical summaries for this station are divided into unregulated and regulated periods.

AVERAGE DISCHARGE.--14 years (1953-66), 72.6 ft<sup>3</sup>/s (2.06 m<sup>3</sup>/s); 7 years (1968-74), 40.1 ft<sup>3</sup>/s (1.14 m<sup>3</sup>/s).

REMARKS.--Flow partially regulated since August 1967 by Greenbelt Reservoir in Texas.

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

## SALT FORK RED RIVER NEAR WELLINGTON, TEXAS

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS	
1953						5	10	20	4	13	34	75	57	73	16	19	15	7	4	1	6	1	2	1	1									1		20187.1
1954										10	43	47	31	47	54	36	27	10	15	6	3	9	5	6	7	3	2		2	1				1		43805.4
1955										3	33	72	100	26	37	23	7	13	6	6	13	6	4	4	3	2	1	2	1	1	1	1				28805.7
1956					6	20	43	24	15	49	54	38	21	40	30	6	4	3	3	1	3	1			2		1		1							16790.4
1957					2	5	15	39	54	65	27	22	19	9	16	12	20	14	7	3	10	3	4	6	3	4	2		1				1		1	58239.2
1958					2	5	7	18	7	14	21	16	39	48	38	56	30	24	17	7	2	2	4	2	2		2		1				1		29901.7	
1959					1	2	5	25	16	63	48	15	23	42	31	42	11	6	10	6	3	4	3	1	5	1	1		1						21840.9	
1960						1	3	8	4	26	33	28	31	30	22	30	21	32	45	16	10	10	2	3	2		2	1	1							33498.8
1961						2	3	8	19	23	32	11	26	18	34	46	45	35	19	8	7	8	5	9		2	2	1	2							39332.1
1962						2	1	10	15	26	44	32	51	64	33	32	19	7	5	1	2	1	2	1	1		1									25370.3
1963							1	23	10	52	27	25	49	42	60	38	15	10	3	5		1	2	1	1											14869.6
1964							3	37	23	14	56	31	62	37	34	28	19	15	2						1		1			1						10678.1
1965							6	15	42	49	32	50	42	70	23	6	6	7	4	3	2	3	1	1	1	1	1	1						1		18890.5
1966						2	9	4	9	35	15	19	54	42	36	56	43	19	10	5	4		1	1	1											8697.9

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	5113	100.0	9	2.50	282	4753	93.0	18	62.0	217	707	13.8	27	1600	10	33	.6	27	1600	10	33	.6
1	0.10	0	5113	100.0	10	3.60	485	4471	87.4	19	89.0	164	490	9.6	28	2200	8	23	.4	28	2200	8	23	.4
2	0.20	1	5113	100.0	11	5.10	628	3986	78.0	20	130.0	76	326	6.4	29	3200	6	15	.2	29	3200	6	15	.2
3	0.30	0	5112	100.0	12	7.30	414	3358	65.7	21	180.0	62	250	4.9	30	4600	4	9	.1	30	4600	4	9	.1
4	0.40	2	5112	100.0	13	10.00	539	2944	57.6	22	260.0	43	188	3.7	31	6500	2	5	.0	31	6500	2	5	.0
5	0.60	15	5110	99.9	14	15.00	476	2405	47.0	23	370.0	36	145	2.8	32	9400	1	3	.0	32	9400	1	3	.0
6	0.90	54	5095	99.6	15	21.00	488	1929	37.7	24	530.0	38	109	2.1	33	13000	2	2	.0	33	13000	2	2	.0
7	1.20	105	5041	98.6	16	30.00	465	1441	28.2	25	760.0	21	71	1.4	34					34				
8	1.70	183	4936	96.5	17	44.00	269	976	19.1	26	1100.0	17	50	1.0										

## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## SALT FORK RED RIVER NEAR WELLINGTON, TEXAS

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1954	0.70	0.73	0.94	1.01	1.19	2.73	4.87	16.90	26.10	62.00
1955	2.90	2.90	3.53	3.96	4.34	4.79	5.19	5.55	8.71	111.00
1956	2.20	2.53	2.54	3.01	3.30	6.17	12.10	14.10	26.30	88.80
1957	0.60	0.73	0.90	0.94	1.28	1.58	2.78	3.62	6.46	38.90
1958	0.90	1.33	1.90	2.62	3.60	16.10	22.60	21.30	24.90	168.00
1959	0.50	0.63	1.26	1.51	2.97	7.48	11.10	13.00	15.70	74.10
1960	0.20	0.80	1.33	2.24	2.70	3.65	44.60	38.70	52.10	90.10
1961	0.90	1.60	2.41	3.91	7.27	37.50	44.50	51.10	107.00	121.00
1962	1.10	1.67	1.99	2.52	3.99	8.89	10.70	19.20	30.60	60.50
1963	1.30	2.33	3.53	3.94	9.53	23.20	32.30	34.30	36.40	67.20
1964	2.20	2.50	2.77	3.06	4.02	10.50	13.40	17.00	25.00	35.20
1965	1.60	1.67	1.74	1.87	2.58	3.46	4.57	14.60	20.50	28.40
1966	1.40	1.93	2.91	5.00	6.19	7.93	11.60	19.10	21.10	54.40

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## SALT FORK RED RIVER NEAR WELLINGTON, TEXAS

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL										
1953	13400.0	2	4700.0	3	2100.0	3	998.0	3	517.0	5	276.0	6	185.0	7	140.0	8	100.0	8	55.3	9
1954	11500.0	3	5460.0	2	2530.0	2	1230.0	2	982.0	2	611.0	2	414.0	2	319.0	2	214.0	2	120.0	2
1955	5840.0	6	2230.0	7	1030.0	8	673.0	8	573.0	3	426.0	3	296.0	3	225.0	3	150.0	3	78.9	6
1956	6300.0	5	2220.0	8	977.0	10	461.0	11	357.0	9	182.0	11	125.0	11	96.8	11	70.1	11	45.9	11
1957	24300.0	1	6550.0	1	3440.0	1	2170.0	1	1540.0	1	842.0	1	572.0	1	436.0	1	308.0	1	160.0	1
1958	8360.0	4	2860.0	4	1380.0	4	696.0	7	375.0	8	319.0	4	244.0	4	192.0	4	139.0	4	81.9	5
1959	3570.0	11	1410.0	11	980.0	9	484.0	10	286.0	10	252.0	8	189.0	8	146.0	7	104.0	7	59.8	8
1960	3610.0	10	1800.0	5	1360.0	5	713.0	6	428.0	6	253.0	7	179.0	6	151.0	6	129.0	6	91.5	4
1961	3770.0	9	1690.0	10	1300.0	6	928.0	4	556.0	4	302.0	5	217.0	5	176.0	5	138.0	5	108.0	3
1962	4880.0	8	1800.0	9	836.0	11	487.0	9	253.0	11	190.0	10	135.0	10	129.0	9	97.8	9	69.5	7
1963	1350.0	13	843.0	13	386.0	13	190.0	13	105.0	13	74.9	12	51.8	12	63.9	12	45.0	12	40.7	12
1964	2670.0	12	1080.0	12	465.0	12	231.0	12	124.0	12	69.6	13	51.2	13	46.3	13	43.2	13	29.2	13
1965	5060.0	7	2690.0	6	1240.0	7	725.0	5	425.0	7	218.0	9	150.0	9	116.0	10	84.8	10	51.8	10
1966	550.0	14	278.0	14	156.0	14	87.1	14	54.8	14	38.1	14	35.6	14	35.5	14	29.0	14	23.8	14

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

SALT FORK RED RIVER NEAR WELLINGTON, TEXAS

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	
YEAR	NUMBER OF DAYS IN CLASS																																		CFS-DAYS	
1968										5	12	31	43	66	40	40	25	22	23	15	8	7	7	3	4	1	3	1	4	1	1	1	2	1	27660.8	
1969				1	4	8	3	17	12	12	11	13	24	26	60	58	33	21	16	10	12	8	3	4	2	2	1	2	2						17686.3	
1970				5	32	9	21	24	25	19	23	14	4	37	71	39	17	7	5	4	5		2	1								1			6621.4	
1971	2		3	7	12	44	34	11	40	39	33	60	46	19	7		1	2		1	1	1	2												3827.9	
1972									11	18	14	30	59	42	53	41	42	14	7	5	5	7	4	1	3		3	5				1			12906.6	
1973									3	15	18	30	30	30	33	68	35	34	21	13	11	9	1	4	2	2	2	1	1					1	1	20621.3
1974							1	1	16	27	18	17	17	19	65	68	43	17	14	9	5	7	1	3	4	4	1	4	3			1				12960.4

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	2557	100.0	9	4.40	123	2218	86.7	18	45.0	86	336	13.1	27	460	6	27	1.0					
1	0.50	2	2557	100.0	10	5.70	151	2095	81.9	19	58.0	58	250	9.8	28	590	7	21	.8					
2	0.70	0	2555	99.9	11	7.40	195	1944	76.0	20	75.0	48	192	7.5	29	770	3	14	.5					
3	0.90	0	2555	99.9	12	9.60	211	1749	68.4	21	97.0	34	144	5.6	30	990	4	11	.4					
4	1.20	40	2547	99.6	13	12.00	321	1538	60.1	22	130.0	23	110	4.3	31	1300	1	7	.2					
5	1.60	26	2507	98.0	14	16.00	298	1217	47.6	23	160.0	19	67	3.4	32	1700		6	.2					
6	2.00	74	2481	97.0	15	21.00	249	919	35.9	24	210.0	16	68	2.7	33	2100	4	6	.2					
7	2.60	88	2407	94.1	16	27.00	166	620	24.2	25	270.0	9	52	2.0	34	2600	2	2	.0					
8	3.40	101	2319	90.7	17	35.00	118	454	17.8	26	350.0	16	43	1.7										

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

SALT FORK RED RIVER NEAR WELLINGTON, TEXAS

YEAR	1		3		7		14		30		60		90		120		183		ANNUAL	
1968	2.00	4	2.23	4	2.74	4	2.84	4	3.24	3	5.33	4	10.50	4	9.93	3	23.20	6	28.20	3
1969	4.60	6	5.00	7	5.74	7	6.69	7	10.20	7	30.70	7	33.10	7	33.80	7	38.90	7	81.60	7
1970	1.50	3	1.70	3	1.89	3	2.61	3	4.11	4	5.19	3	12.30	5	18.50	6	20.60	5	36.80	4
1971	0.91	2	0.94	2	1.13	2	1.26	1	1.56	1	1.79	1	2.17	1	2.58	1	4.81	1	12.40	1
1972	0.56	1	0.70	1	1.10	1	1.39	2	2.05	2	2.78	2	3.87	2	8.09	2	10.60	2	15.10	2
1973	2.70	5	2.90	5	2.99	5	3.21	5	4.21	5	11.30	6	12.80	6	13.30	4	18.50	3	43.90	5
1974	4.70	7	4.47	6	5.06	6	5.64	6	9.13	6	10.20	5	10.40	3	15.50	5	18.60	4	52.40	6

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

SALT FORK RED RIVER NEAR WELLINGTON, TEXAS

YEAR	1		3		7		15		30		60		90		120		183		ANNUAL	
1968	2940.0	2	1300.0	2	662.0	2	594.0	1	325.0	1	224.0	1	189.0	1	163.0	1	118.0	1	75.6	1
1969	881.0	6	636.0	4	347.0	5	286.0	3	165.0	3	99.2	4	95.5	3	80.1	3	64.1	3	48.5	3
1970	1110.0	4	417.0	6	186.0	6	91.1	6	69.0	6	46.6	6	37.8	6	32.9	6	29.7	6	18.1	6
1971	266.0	7	168.0	7	103.0	7	56.5	7	31.6	7	17.6	7	13.2	7	14.1	7	12.3	7	10.5	7
1972	2370.0	3	870.0	3	393.0	3	243.0	4	130.0	5	115.0	3	90.5	4	69.9	4	51.0	4	35.3	5
1973	5040.0	1	1880.0	1	877.0	1	488.0	2	294.0	2	199.0	2	166.0	2	134.0	2	96.5	2	57.0	2
1974	1010.0	5	492.0	5	375.0	4	189.0	5	150.0	4	90.3	5	76.5	5	64.0	5	49.3	5	35.5	4



## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## SALT FORK RED RIVER AT MANGUM, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1939	0.00 1	0.00 1	0.00 1	0.00 1	0.16 25	4.21 26	4.77 16	16.40 24	29.60 23	176.00 32
1940	0.00 2	0.00 2	0.00 2	0.00 2	0.00 1	0.00 1	0.00 1	1.09 7	1.07 3	65.70 16
1941	0.00 3	0.00 3	0.00 3	0.00 3	0.00 2	1.23 21	6.19 18	9.40 15	12.60 13	19.70 3
1942	0.00 4	0.00 4	0.34 36	3.51 36	16.40 35	50.90 36	55.40 36	54.00 36	128.00 36	331.00 36
1943	0.00 5	0.00 5	0.00 4	0.00 4	3.10 32	6.72 28	12.00 25	14.10 19	61.60 32	80.00 23
1944	0.00 6	0.00 6	0.00 5	0.00 5	0.00 3	0.00 2	0.00 2	0.01 4	4.14 8	37.90 8
1945	0.00 7	0.00 7	0.00 6	0.00 6	3.56 33	13.60 31	18.20 27	18.60 27	34.60 27	74.90 19
1946	0.00 8	0.00 8	0.00 7	0.00 7	0.00 4	0.00 3	0.00 3	0.01 5	2.43 7	31.40 5
1947	0.00 9	0.00 9	0.00 8	0.00 8	0.00 5	3.29 23	7.50 20	15.10 21	30.30 24	56.90 13
1948	0.00 10	0.00 10	0.00 9	0.00 9	0.00 6	0.31 14	3.50 14	3.10 10	4.19 9	158.00 31
1949	0.00 11	0.00 11	0.00 10	0.00 10	0.00 7	0.00 4	0.42 10	0.97 6	2.23 6	54.60 11
1950	0.00 12	0.00 12	0.00 11	0.00 11	2.34 31	7.83 29	12.40 26	17.30 26	18.50 16	82.80 22
1951	0.00 13	0.00 13	0.00 12	1.16 35	6.58 34	11.70 30	20.20 30	25.10 29	26.30 21	56.40 12
1952	0.00 14	0.00 14	0.00 13	0.00 12	0.00 8	0.57 17	1.02 11	5.65 12	8.22 11	59.00 14
1953	0.00 15	0.00 15	0.00 14	0.00 13	0.00 9	0.00 5	0.00 4	0.00 1	0.00 1	7.31 1
1954	0.00 16	0.00 16	0.00 15	0.00 14	0.00 10	6.06 27	11.10 24	11.60 16	31.10 25	77.10 20
1955	0.00 17	0.00 17	0.00 16	0.00 15	0.00 11	0.00 6	0.00 5	0.00 2	1.21 4	99.60 26
1956	0.00 18	0.00 18	0.00 17	0.00 16	0.00 12	2.37 22	5.98 17	8.92 14	44.90 30	131.00 29
1957	0.00 19	0.00 19	0.00 18	0.00 17	0.00 13	0.00 7	0.01 8	1.23 8	1.94 5	103.00 27
1958	0.00 20	0.00 20	0.00 19	0.15 34	1.43 30	15.30 32	19.00 28	18.90 28	20.50 17	198.00 35
1959	0.00 21	0.00 21	0.00 20	0.00 18	0.00 14	0.46 15	2.96 12	2.94 9	8.23 12	72.20 18
1960	0.00 22	0.00 22	0.00 21	0.00 19	0.18 26	1.13 20	19.30 29	16.20 23	44.80 29	136.00 30
1961	0.00 23	0.00 23	0.00 22	0.00 20	1.62 29	33.80 34	44.60 35	49.00 35	102.00 35	179.00 34
1962	0.00 24	0.00 24	0.00 23	0.00 21	0.01 23	1.12 19	3.32 13	12.00 17	21.90 18	54.60 15
1963	0.00 25	0.00 25	0.00 24	0.00 22	0.64 28	24.20 33	35.90 32	35.20 32	57.40 28	79.70 21
1964	0.00 26	0.00 26	0.00 25	0.00 23	0.00 15	0.23 13	8.88 22	14.20 20	27.30 22	53.40 10
1965	0.00 27	0.00 27	0.00 26	0.00 24	0.00 16	0.00 8	0.36 9	8.17 13	23.90 20	35.30 7
1966	0.00 28	0.00 28	0.00 27	0.00 25	0.00 17	0.19 12	36.00 33	46.40 34	75.40 34	106.00 28
1967	0.00 29	0.00 29	0.00 28	0.00 26	0.00 18	0.57 16	4.39 15	12.60 18	13.10 14	33.20 6
1968	0.00 30	0.00 30	0.00 29	0.00 27	0.03 24	4.06 25	8.31 21	27.90 30	45.70 31	68.70 17
1969	0.00 31	0.00 31	0.00 30	0.00 28	25.40 36	36.70 35	37.40 34	36.90 33	65.80 33	178.00 33
1970	0.00 32	0.00 32	0.00 31	0.00 29	0.00 19	1.08 18	25.90 31	27.90 31	53.10 26	97.70 25
1971	0.00 33	0.00 33	0.00 32	0.00 30	0.00 20	0.00 9	0.00 6	0.00 3	0.01 2	19.40 2
1972	0.00 34	0.00 34	0.00 33	0.00 31	0.00 21	0.00 10	10.10 23	17.10 25	22.00 19	23.40 4
1973	0.00 35	0.00 35	0.00 34	0.00 32	0.00 22	0.02 11	0.01 7	3.80 11	6.02 10	43.70 9
1974	0.00 36	0.00 36	0.00 35	0.00 33	0.40 27	3.64 24	6.97 19	15.70 22	18.30 15	85.60 24

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## SALT FORK RED RIVER AT MANGUM, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1938	2100.0 1	4060.0 1	3810.0 2	2000.0 4	1300.0 3	803.0 3	587.0 3	466.0 3	315.0 3	161.0 6
1939	6330.0 15	5160.0 7	2330.0 9	1120.0 9	673.0 10	367.0 13	255.0 14	197.0 15	159.0 15	81.8 18
1940	796.0 37	245.0 37	126.0 37	58.9 37	34.8 37	34.1 37	24.3 37	23.9 37	19.2 37	12.3 37
1941	1100.0 2	6630.0 3	4310.0 1	2470.0 1	1830.0 1	1300.0 1	999.0 1	768.0 1	535.0 1	277.0 1
1942	2520.0 29	2410.0 17	1240.0 20	675.0 21	473.0 18	268.0 19	204.0 18	169.0 18	128.0 18	97.9 12
1943	4240.0 20	2090.0 23	1450.0 16	712.0 19	364.0 22	215.0 22	179.0 21	146.0 21	107.0 23	65.9 21
1944	4020.0 21	1890.0 25	693.0 25	717.0 18	391.0 21	258.0 20	174.0 22	139.0 22	118.0 21	69.3 20
1945	1110.0 35	528.0 35	346.0 33	188.0 33	116.0 33	94.9 31	84.4 32	75.8 30	74.0 29	50.5 26
1946	1230.0 34	619.0 34	282.0 35	139.0 36	91.0 34	53.4 34	44.6 34	44.2 34	36.2 34	23.9 34
1947	12100.0 4	5440.0 6	3530.0 4	2290.0 2	1230.0 4	774.0 4	552.0 4	429.0 4	293.0 4	183.0 3
1948	5850.0 16	2350.0 20	1030.0 23	561.0 24	331.0 23	189.0 24	127.0 25	129.0 24	94.8 24	49.3 20
1949	6450.0 14	3530.0 13	1790.0 12	1020.0 12	636.0 12	363.0 12	263.0 13	226.0 13	174.0 12	92.3 14
1950	1760.0 32	707.0 33	459.0 32	248.0 32	207.0 29	157.0 26	143.0 23	123.0 23	86.5 26	57.0 26
1951	5560.0 17	2880.0 16	1390.0 18	694.0 20	411.0 20	282.0 17	196.0 19	152.0 20	112.0 22	61.9 23
1952	928.0 36	478.0 36	238.0 36	141.0 35	79.7 36	48.9 35	40.9 36	39.2 35	30.7 35	17.5 35
1953	10300.0 6	5700.0 5	2550.0 7	1190.0 7	602.0 14	325.0 16	224.0 16	180.0 17	122.0 19	61.1 24
1954	9780.0 7	5150.0 8	2420.0 8	1180.0 8	906.0 7	591.0 6	397.0 9	299.0 9	201.0 9	115.0 9
1955	6940.0 13	3650.0 10	1890.0 11	1060.0 11	832.0 8	638.0 5	432.0 5	325.0 7	216.0 7	109.0 10
1956	18400.0 2	7680.0 2	3690.0 3	1760.0 6	1060.0 5	561.0 7	404.0 6	303.0 8	204.0 8	123.0 7
1957	14800.0 3	6610.0 4	3320.0 5	2100.0 3	1440.0 2	1050.0 2	710.0 2	545.0 2	369.0 2	187.0 2
1958	7170.0 11	3320.0 14	1960.0 10	975.0 14	516.0 17	340.0 15	248.0 15	202.0 14	146.0 16	82.1 17
1959	4630.0 19	2390.0 18	1670.0 13	834.0 17	644.0 11	410.0 10	317.0 11	242.0 11	164.0 14	85.9 19
1960	3970.0 22	2200.0 22	1070.0 21	596.0 22	429.0 19	244.0 21	188.0 20	158.0 19	174.0 13	107.0 11
1961	8720.0 8	4600.0 9	3150.0 6	1830.0 5	974.0 6	535.0 8	401.0 8	327.0 6	260.0 6	169.0 5
1962	3850.0 23	1600.0 26	738.0 27	434.0 27	234.0 27	193.0 23	138.0 24	139.0 23	122.0 20	79.7 19
1963	3210.0 25	1090.0 28	644.0 26	569.0 23	249.0 25	149.0 27	111.0 27	112.0 26	74.9 28	56.0 27
1964	3200.0 26	1580.0 27	670.0 28	325.0 28	180.0 31	93.0 32	64.4 33	53.3 33	58.3 32	34.1 33
1965	7570.0 10	3630.0 11	1640.0 14	849.0 15	550.0 15	278.0 18	207.0 17	168.0 16	135.0 17	85.1 16
1966	5330.0 18	2020.0 24	900.0 24	439.0 26	236.0 26	133.0 29	106.0 29	96.0 28	75.7 27	64.6 22
1967	2480.0 30	1060.0 30	523.0 30	256.0 31	173.0 32	91.3 33	90.6 31	72.8 31	62.5 31	37.7 31
1968	8210.0 9	3610.0 12	1600.0 15	942.0 13	810.0 9	485.0 9	403.0 7	382.0 5	273.0 5	174.0 4
1969	3000.0 28	2380.0 19	1360.0 19	1110.0 10	633.0 13	358.0 14	298.0 12	241.0 12	183.0 10	120.0 8
1970	3160.0 27	1200.0 29	556.0 29	271.0 30	228.0 28	137.0 28	108.0 26	90.3 29	71.7 30	38.1 30
1971	1400.0 33	725.0 32	344.0 34	161.0 34	84.0 35	43.3 36	41.2 35	37.8 36	24.8 36	12.5 36
1972	2390.0 31	1050.0 31	478.0 31	242.0 29	186.0 30	121.0 30	96.6 30	72.6 32	50.9 33	34.7 32
1973	7070.0 12	2900.0 15	1410.0 17	851.0 16	555.0 16	397.0 11	323.0 10	252.0 10	174.0 11	93.1 13
1974	3380.0 24	2250.0 21	1070.0 22	520.0 25	331.0 24	173.0 25	126.0 26	98.8 27	90.0 25	57.5 25



## MONTHLY DURATION TABLE

SALT FORK RED RIVER AT MANGUM, OKLAHOMA

PERIOD 1937-1974

CLASS LIMIT	TOTAL PERCENT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
0.00	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0.01	70.2	87.9	94.3	88.6	77.6	73.6	76.4	54.9	33.6	47.1	53.1	73.3	83.5
0.02	70.1	87.9	94.3	88.6	77.6	73.3	76.4	54.7	33.5	47.0	53.0	73.3	83.5
0.03	70.0	87.9	94.3	88.6	77.5	73.3	76.1	54.6	33.5	46.8	53.0	73.3	83.5
0.05	69.9	87.9	94.3	88.6	77.5	73.1	75.9	54.4	33.2	46.8	52.8	73.3	83.5
0.08	69.9	87.9	94.3	88.6	77.3	73.1	75.7	54.3	33.1	46.8	52.8	73.3	83.5
0.13	69.3	87.9	94.3	88.6	76.4	71.9	74.9	53.1	32.3	46.1	52.2	73.2	83.4
0.20	69.3	87.9	94.3	88.1	76.4	71.8	74.7	52.8	32.3	46.1	52.1	73.2	83.4
0.31	68.4	87.9	94.1	87.2	74.5	71.0	74.0	51.1	31.2	45.0	51.2	72.2	83.3
0.48	67.9	87.9	93.8	86.5	74.1	70.3	73.6	50.7	30.4	44.1	50.6	71.6	83.3
0.75	66.7	87.9	93.7	84.7	69.4	64.9	72.9	48.1	29.2	42.4	49.4	69.5	83.1
1.20	65.2	87.5	93.1	82.4	67.4	67.8	71.9	46.6	27.6	40.6	48.4	66.2	82.7
1.80	63.8	87.4	92.7	80.6	67.2	66.9	70.6	45.5	25.5	38.8	46.6	63.5	82.6
2.80	61.5	86.5	91.2	77.8	64.1	65.3	69.1	42.8	22.9	36.1	43.6	60.8	80.4
4.30	58.3	83.1	88.4	74.0	59.7	62.2	67.5	39.2	20.1	33.2	40.4	57.7	76.0
6.70	54.4	78.0	86.2	69.0	53.6	59.4	65.0	34.5	18.2	30.0	37.4	53.8	70.0
10.00	50.0	74.2	82.8	61.6	46.6	56.0	60.5	31.4	16.9	25.9	34.3	47.6	64.4
16.00	42.4	63.5	69.3	52.0	39.9	51.5	55.6	26.8	14.8	22.5	27.3	36.3	50.7
25.00	33.2	48.8	45.8	42.1	31.8	47.6	48.5	22.7	12.0	18.1	22.5	24.6	34.6
39.00	23.9	31.8	27.4	27.8	25.7	40.5	39.5	17.6	10.3	14.6	16.5	13.8	21.7
61.00	16.5	16.5	17.0	17.4	20.0	32.5	31.3	13.4	8.1	11.0	12.3	8.6	10.3
94.00	11.3	8.3	10.2	10.0	14.2	27.4	23.8	10.4	5.7	8.3	9.2	3.7	4.9
150.00	7.9	4.7	6.3	5.0	10.1	23.0	18.6	7.1	3.8	6.5	6.5	0.6	2.2
230.00	5.5	2.4	3.1	3.0	6.5	17.3	13.6	5.6	3.1	4.3	4.7	0.5	1.2
350.00	3.8	0.9	1.8	1.2	5.3	13.1	10.1	3.8	2.4	2.5	3.7	0.3	0.8
550.00	2.7	0.6	0.5	0.7	3.6	9.9	8.5	2.4	1.7	1.2	2.7	0.1	0.3
850.00	1.8	0.3	0.3	0.1	2.1	7.6	5.9	1.5	1.0	0.8	2.2	0.0	0.2
1300.00	1.3	0.1	0.1	0.1	1.4	5.8	4.2	1.0	0.7	0.5	1.8	0.0	0.0
2000.00	0.8	0.0	0.1	0.0	0.7	3.7	2.8	0.6	0.3	0.4	1.3	0.0	0.0
3200.00	0.4	0.0	0.0	0.0	0.3	1.7	1.9	0.3	0.2	0.3	0.4	0.0	0.0
4900.00	0.2	0.0	0.0	0.0	0.2	1.0	1.1	0.2	0.0	0.0	0.3	0.0	0.0
7600.00	0.1	0.0	0.0	0.0	0.0	0.3	0.4	0.1	0.0	0.0	0.1	0.0	0.0
12000.00	0.0	0.0	0.0	0.0	0.0	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0
18000.00	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0

## STATISTICS OF ANNUAL DISCHARGE FOR WATER YEARS, 1938-74

Units of annual Discharge	Mean	Standard Deviation	Coefficient of Variation	Skew Coefficient	First Order Serial Correlation Coefficient
CFS	87.2	57.2	0.66	1.29	-0.02
LOGS of CFS	1.844	0.315		-0.628	0.025

## RED RIVER BASIN

273

07301300 NORTH FORK RED RIVER NEAR SHAMROCK, TEX.

LOCATION.--Lat 34°15'51", long 100°14'29", Wheeler County, on left bank of downstream side of bridge on U.S. Highway 83, 2.5 mi (4.0 km) north of Shamrock, 16 mi (26 km) upstream from Oklahoma-Texas State line, and 23 mi (37 km) downstream from McClellan Creek.

DRAINAGE AREA.--1,082 mi<sup>2</sup> (2,802 km<sup>2</sup>), of which 379 mi<sup>2</sup> (982 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD.--February 1964 to September 1974.

AVERAGE DISCHARGE.--10 years (1965-74), 24.5 ft<sup>3</sup>/s (0.694 m<sup>3</sup>/s).

REMARKS.--Some regulation by Lake McClellan in Texas.

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

NORTH FORK RED RIVER NEAR SHAMROCK, TEXAS

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS	
1965	159							1	4		1	2	2	1	9	9	19	21	24	27	22	25	8	10	4	2	3	2	2	2	4	2			15206.1	
1966	205	3	3		4	4		6	1	1	6	4	7	5	14	17	12	17	20	8	12	5	2	3	1	1			1	2	2				5655.5	
1967	209	3	3		2	5		11	9	3	7	2	6	5	8	4	8	14	7	11	18	9	3	4	3	6	1		2						7112.9	
1968	123	2	2		1	3		6	1	1	6	2	6	7	17	13	12	11	18	29	35	17	11	15	11	6	2	2	4	1	1			1	13957.6	
1969	102	4	2		1	3		3	1	4		5	7	7	16	9	14	30	25	20	30	23	13	14	16	6	2	2	3	2			1		11519.6	
1970	155	3	2		3			3	1		1	2	6	4	7	4	9	18	65	25	21	13	6	10	3	2	1							1		6217.3
1971	320	1			2					2						1	4	5	6	6	6	3	2	3	2	2									1343.4	
1972	141	7	6	2	5	4		16	3		2	1	2	6	8	15	19	21	26	14	13	19	12	6	4	5	3	1	3	1	1				8112.8	
1973	108	6	3	8	4	13	2	5	3	1	6	2	3	4	3	4	8	11	21	47	26	30	14	9	4	6	3	2	1	2	2				14911.0	
1974	141	3	5	2	5	16	4	15	8	5	2	5	10	9	7	12	7	10	32	17	18	12	3	7	2	5										5452.9

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	1663	3652	100.0	9	0.30	17	1741	47.7	18	9.0	234	1132	31.0	27	270	11	58	1.5
1	0.01	32	1989	54.5	10	0.40	31	1724	47.2	19	13.0	178	898	24.6	28	400	17	47	1.2
2	0.02	26	1957	53.6	11	0.60	25	1693	46.4	20	19.0	222	720	19.7	29	580	10	30	.8
3	0.03	12	1931	52.9	12	0.90	49	1668	45.7	21	28.0	152	498	13.6	30	850	11	20	.5
4	0.04	27	1919	52.5	13	1.40	47	1619	44.3	22	41.0	90	346	9.5	31	1200	5	9	.2
5	0.06	48	1892	51.8	14	2.00	89	1572	43.0	23	60.0	86	256	7.0	32	1600	3	4	.1
6	0.09	6	1844	50.5	15	2.90	88	1483	40.6	24	87.0	55	170	4.7	33	2700	1	1	.0
7	0.10	66	1838	50.3	16	4.20	108	1395	38.2	25	130.0	39	115	3.1	34				
8	0.20	31	1772	48.5	17	6.20	155	1287	35.2	26	190.0	18	76	2.1					

## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

NORTH FORK RED RIVER NEAR SHAMROCK, TEXAS

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1965	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.09 4	0.07 2	3.63 3	17.20 4
1966	0.00 2	0.00 2	0.00 2	0.00 2	0.00 2	0.00 2	4.78 8	7.01 7	12.90 10	41.40 9
1967	0.00 3	0.00 3	0.00 3	0.00 3	0.00 3	0.00 3	0.03 3	0.78 4	3.92 4	11.00 1
1968	0.00 4	0.00 4	0.00 4	0.00 4	0.00 4	1.06 8	8.33 10	9.80 9	12.20 9	28.00 7
1969	0.00 5	0.00 5	0.00 5	0.00 5	0.24 10	3.85 10	3.03 6	9.14 8	10.10 6	42.10 10
1970	0.00 6	0.00 6	0.00 6	0.00 6	0.00 5	0.00 4	3.16 7	10.50 10	11.10 8	24.50 5
1971	0.00 7	0.00 7	0.00 7	0.00 7	0.00 6	0.00 5	0.00 1	0.00 1	0.07 1	12.60 2
1972	0.00 8	0.00 8	0.00 8	0.00 8	0.00 7	0.08 7	0.17 5	0.17 3	1.47 2	12.60 3
1973	0.00 9	0.00 9	0.00 9	0.00 9	0.00 8	1.50 9	6.61 9	5.59 6	10.20 7	24.70 6
1974	0.00 10	0.00 10	0.00 10	0.00 10	0.00 9	0.00 6	0.01 2	3.22 5	5.01 5	36.20 8

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

NORTH FORK RED RIVER NEAR SHAMROCK, TEXAS

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL										
1965	1850.0	3	1560.0	1	877.0	1	541.0	1	369.0	1	187.0	1	131.0	1	103.0	2	72.9	2	41.7	1
1966	1010.0	7	581.0	6	251.0	7	122.0	9	98.1	7	50.2	8	33.6	9	25.2	9	18.0	9	15.5	8
1967	1560.0	4	631.0	5	301.0	5	161.0	6	138.0	4	77.6	4	63.8	5	51.6	5	35.4	5	19.5	6
1968	3100.0	1	1140.0	2	542.0	2	313.0	3	205.0	3	150.0	3	104.0	3	88.7	3	65.6	3	38.1	3
1969	1230.0	6	511.0	7	291.0	6	230.0	4	123.0	5	72.2	5	69.6	4	59.1	4	43.1	4	31.6	4
1970	2150.0	2	766.0	4	341.0	4	170.0	5	115.0	6	68.7	6	49.6	6	40.5	6	31.0	6	17.0	7
1971	156.0	10	132.0	10	89.4	10	59.3	10	35.7	10	17.9	10	11.9	10	11.0	10	7.3	10	3.7	10
1972	887.0	9	334.0	9	177.0	9	126.0	8	79.1	8	55.6	7	41.0	7	35.0	7	23.7	8	22.2	5
1973	1260.0	5	841.0	3	466.0	3	396.0	2	241.0	2	183.0	2	131.0	2	105.0	1	76.5	1	40.9	2
1974	943.0	8	479.0	8	250.0	8	131.0	7	88.2	9	43.1	9	41.0	8	33.8	8	26.3	7	14.9	9

## STATISTICS OF ANNUAL DISCHARGE FOR WATER YEARS, 1965, 1967-74

Units of annual Discharge	Mean	Standard Deviation	Coefficient of Variation	Skew Coefficient	First Order Serial Correlation Coefficient
CFS	24.5	12.9	0.52	0.08	-0.08
LOGS of CFS	1.311	0.314		-1.487	0.003

## RED RIVER BASIN

07301410 SWEETWATER CREEK NEAR KELTON, TEX.

LOCATION.--Lat 35°28'33", long 100°07'14", Wheeler County, near center of stream on downstream side of bridge on Farm Road 592, 5 mi (8 km) north of Kelton, 8 mi (13 km) upstream from Texas-Oklahoma state line, and 8.5 mi (13.7 km) northeast of Wheeler.

DRAINAGE AREA.--287 mi<sup>2</sup> (743 km<sup>2</sup>), of which 20 mi<sup>2</sup> (50 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD.--Nov. 1961 to September 1974.

AVERAGE DISCHARGE.--12 years (1963-74) 13.7 ft<sup>3</sup>/s (0.388 m<sup>3</sup>/s).

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

SWEETWATER CREEK NEAR KELTON, TEXAS

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS
1963								7	4	1	3	3	4	9	7	5	12	24	37	42	82	99	11	5	1	2	2	1	1	2	1				6447.2
1964	54							7	4	6	3	7	5	1	2	18	12	21	27	24	118	34	8	6	2	1									4156.1
1965								4	16	13	7	6	16	15	17	5	11	6	17	41	134	21	7	12	5	3	2	2			2	2	1		6655.1
1966					2	10	14	2	14	4	10	12	6	12	21	14	22	19	115	68	9	4			1										4554.8
1967													4	34	26	16	34	78	78	66	10	4	3	1	1	1	3								4138.1
1968										4	3	3	2	10	23	34	27	37	63	47	38	14	2	3	3	2									4724.2
1969	5		1		5			3	3		5	4	12	4	3	5	11	5	6	19	141	98	17	7	4	2	1	1				2	1		7392.4
1970						10	7	11	4	3	19	6	4	15	9	10	25	30	143	36	18	6	2	1					1						5799.1
1971	11	6		2	1	1	4	6	4	18	11	17	20	23	16	10	15	54	125	14	2	1			1										2524.3
1972				1	1		14	5	5	13	6	17	15	11	12	12	26	31	95	83	8	4	3	2	4										3402.6
1973								3	15	4	16	9	37	32	17	35	14	26	71	23	18	24	4	9	1	2	2	1							5882.6
1974				5	4	4	3	6	3	2	8	5	9	11	12	22	19	8	39	25	138	26	7	3	3	2									4248.4

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	70	4583	100.0	9	0.40	94	4103	93.6	18	8.9	592	2548	58.1	27	190	6	23	.5
1	0.01	6	4315	94.4	10	0.60	61	4009	91.5	19	12.0	1202	1956	44.6	28	270	9	17	.3
2	0.02	6	4307	94.3	11	0.80	128	3948	90.1	20	18.0	463	754	17.2	29	370	5	8	.1
3	0.03	7	4301	94.1	12	1.20	108	3820	87.2	21	25.0	118	291	6.6	30	520	2	3	.0
4	0.05	11	4294	94.0	13	1.60	170	3712	84.7	22	35.0	75	173	3.9	31	740	1	1	.0
5	0.07	6	4283	97.7	14	2.30	193	3542	80.8	23	49.0	28	98	2.2	32				
6	0.10	65	4277	97.6	15	3.20	184	3349	76.4	24	68.0	28	70	1.6	33				
7	0.20	62	4212	96.1	16	4.50	230	3165	72.2	25	96.0	10	42	1.0	34				
8	0.30	47	4150	94.7	17	6.30	387	2935	67.0	26	130.0	9	32	0.7					

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

SWEETWATER CREEK NEAR KELTON, TEXAS

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1963	1.80 12	1.93 12	2.13 12	2.38 12	3.08 11	10.90 12	12.60 12	15.20 12	15.50 11	21.50 11
1964	0.10 7	0.10 6	0.11 5	0.20 7	3.61 12	4.89 10	7.00 11	8.66 9	12.10 8	15.90 7
1965	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.02 1	0.08 1	0.35 1	3.36 3	9.91 4
1966	0.20 8	0.23 8	0.26 8	0.47 8	0.71 7	0.94 4	6.49 9	14.20 11	16.50 12	22.40 12
1967	0.08 5	0.09 5	0.13 7	0.18 5	0.56 6	1.41 6	1.53 5	2.06 5	3.34 2	7.22 1
1968	1.50 11	1.63 11	1.87 11	2.04 11	2.54 10	2.91 9	3.55 7	4.91 6	6.27 6	12.40 5
1969	0.49 9	0.52 9	0.61 9	0.96 10	1.11 9	5.27 11	6.83 10	8.58 8	14.20 10	18.30 9
1970	0.00 2	0.00 2	0.05 3	0.08 3	0.36 5	1.52 7	5.71 8	11.80 10	12.70 9	16.10 8
1971	0.10 6	0.11 7	0.11 4	0.18 4	0.27 4	0.66 3	1.14 4	1.74 4	4.33 5	13.70 6
1972	0.00 3	0.00 3	0.00 2	0.00 2	0.08 2	0.47 2	0.64 2	1.14 2	4.16 4	7.92 2
1973	0.04 4	0.07 4	0.12 6	0.20 6	0.24 3	1.03 5	1.00 3	1.27 3	2.89 1	9.45 3
1974	0.76 10	0.76 10	0.80 10	0.90 9	1.82 8	2.54 8	3.14 6	6.45 7	8.16 7	18.50 10

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

SWEETWATER CREEK NEAR KELTON, TEXAS

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1963	410.0 4	196.0 4	150.0 4	85.7 4	47.3 5	26.3 6	26.6 4	22.1 6	20.5 5	17.7 3
1964	362.0 5	170.0 6	85.0 9	44.7 10	32.5 10	20.7 10	19.0 10	18.4 10	18.4 9	11.4 9
1965	531.0 3	411.0 2	218.0 2	136.0 1	86.6 1	51.5 2	39.5 2	33.8 2	27.0 1	18.2 2
1966	551.0 8	163.0 8	87.4 7	50.5 8	33.4 7	24.6 8	22.8 7	21.4 7	19.7 6	12.5 7
1967	357.0 7	141.0 5	120.0 5	69.9 6	42.2 6	24.1 9	21.5 9	19.4 9	16.7 10	11.3 10
1968	214.0 11	105.0 11	57.7 10	45.5 9	33.1 8	26.9 5	24.0 6	22.6 5	18.8 7	12.9 6
1969	736.0 2	345.0 3	166.0 3	85.6 5	49.3 4	29.2 4	24.6 5	22.9 4	22.3 4	20.3 1
1970	1190.0 1	496.0 1	240.0 1	129.0 2	77.0 2	48.6 3	38.3 3	32.4 3	26.0 3	15.9 5
1971	247.0 10	110.0 10	53.8 11	27.0 12	14.6 12	10.7 12	10.4 12	10.4 12	9.9 12	6.9 12
1972	95.0 12	50.0 12	32.9 12	28.1 11	23.0 11	15.8 11	13.8 11	13.5 11	13.0 11	9.3 11
1973	278.0 9	137.0 9	102.0 6	90.0 3	69.5 3	53.9 1	43.3 1	35.8 1	27.0 2	16.1 4
1974	362.0 6	166.0 7	86.1 8	50.6 7	33.0 9	26.0 7	22.3 8	20.4 8	18.4 8	11.6 8

## STATISTICS OF ANNUAL DISCHARGE FOR WATER YEARS, 1963-74

Units of annual Discharge	Mean	Standard Deviation	Coefficient of Variation	Skew Coefficient	First Order Serial Correlation Coefficient
CFS	13.7	3.97	0.29	0.08	-0.07
LOGS of CFS	1.118	0.135		-0.557	-0.012

## RED RIVER BASIN

275

07301500 NORTH FORK RED RIVER NEAR CARTER, OKLA.

LOCATION.--Lat 35°10'05", long 99°30'25", in NW 1/4 SE 1/4 sec.15, T.8 N., R.22 W., Beckham County, near left bank on downstream side of pier of bridge on State Highway 34, 3.0 mi (4.8 km) south of Carter, 10.8 mi (17.4 km) downstream from Timber Creek, and at mile 110.5 (177.8 km).

DRAINAGE AREA.--2,337 mi<sup>2</sup> (6,053 km<sup>2</sup>), of which 399 mi<sup>2</sup> (1,033 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD.--October 1944 to September 1962, August 1964 to September 1974.

AVERAGE DISCHARGE.--28 years (1945-62, 1965-74), 117 ft<sup>3</sup>/s (3.31 m<sup>3</sup>/s).

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

## NORTH FORK RED RIVER NEAR CARTER, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS	
1945	77								3		3	2	2	2	5	5	20	31	39	45	63	39	16	8	1	2	1	1								29748.3
1946	186							2	4	2	3	7	3	4	6	7	10	18	37	31	12	16	9	4	2	1		1								6515.7
1947	61							1		2	1		1					2	8	64	64	54	30	19	13	9	12	6	4	9	2		2			80776.7
1948	148							3	2	1	5	2	4	7	6	17	15	19	50	24	15	11	7	4	6	5	5	5	2	2	1					25799.7
1949	82							2	1		1	1	4	2	2	3	7	5	44	38	23	17	41	28	13	14	13	11	5	4	3		1			70529.8
1950	15													2	1	1	18	30	46	29	41	52	26	27	26	12	17	8	6	1	4	2	1			79935.8
1951	50												2	1	3	4	7	8	18	26	59	61	44	26	18	4	13	5	4	4	1	3	2	2		107586.2
1952	136							1		3	2		1	6	12	6	11	15	15	40	63	30	11	7	4	1	1									11575.0
1953	289							3	1	2	6	4	4	4	2	3	5	4	4	8	4	5	1	5	3	3	1	3	1							7940.9
1954	114								3		3		2	19	26	48	34	13	9	2	2	1	5	4	13	16	7	7	2	4	1	1	1			50232.9
1955	291							1					2	1	3	3	2	1	5	5	2	6	5	13	7	7	1	5		2	1					28814.1
1956	128							3	11	4	16	17	18	29	32	10	18	19	17	7	3	8	6	5	3	2	1	2	1	2	4					25018.8
1957	249								1	7	1	2	2	3	3	2	3	5	8	8	9	10	7	12	7	7	3	2	5	1			1			61963.5
1958	74							4		1	3	6	10	15	22	21	10	31	36	30	28	26	24	8	2	3	4	3	3	1					32367.3	
1959	131								3	1	3	3	3	2	21	25	23	36	26	23	14	14	13	7	1	5	1	7	1			1	1			60795.3
1960									3				1				5	25	39	51	23	28	33	59	51	20	9	10	4	4			1			68939.5
1961	25							6	3				3	4	1	4	8	3	6	13	11	16	46	107	71	17	4	4	3	4	1	3	2			95198.5
1962	11							3	3		9		7	2	4	3	13	10	17	33	46	52	69	29	20	10	10	3	3	5	2		1			61904.5
1965	72							3	1	1	2	1	4	3	11	6	7	13	30	35	61	35	24	19	11	6	7	5	4	3	1					40159.8
1966	71								1	1	1		2	2	4	5	6	5	22	34	32	66	54	26	18	5	4	3	1	1		1				34658.0
1967	32	1								4	2		2	7	5	9	22	29	83	50	52	21	15	10	8	5	4	1	2	1					21344.7	
1968	30	1							1	1	1	2	2	7	5	9	9	10	6	52	28	41	38	46	30	18	16	8	3	2					35296.0	
1969	46	1							1	1	2	1	1	3	3	4	8	8	8	10	19	66	78	54	27	6	12	4				2				50838.5
1970	117		1					2	1		1	1	4	1	3	8	5	19	17	15	55	59	27	13	10	2	2	1			1					19154.9
1971	281		1	2				1	2	4	3	15	2	4	5	4	4	6	3	5	4		3	2	2	6	2	2	1		1					7047.0
1972	39	2						1	4	2	2	7	7	6	12	7	7	37	24	42	33	38	32	20	17	14	5	3	1	2		1				24105.8
1973	101				1			2	5	1	4	2	3	5	13	10	16	9	8	14	34	25	29	28	22	17	7	3	2	3		1				42518.1
1974	82							1					2	1	2	3	1	4	6	22	35	47	81	39	17	8	6	3	3	1	1					17123.1

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	2938	10226	100.0	9	0.40	102	7161	70.0	18	22.0	742	4938	48.3	27	1100	69	185	1.8
1	0.01	5	7288	71.3	10	0.70	62	7059	69.0	19	34.0	884	4196	41.0	28	1700	55	116	1.1
2	0.02	1	7283	71.2	11	1.00	123	6997	68.4	20	52.0	833	3312	32.4	29	2600	30	61	.5
3	0.03	4	7282	71.2	12	1.60	147	6874	67.2	21	80.0	759	2479	24.2	30	4000	16	31	.3
4	0.05	1	7278	71.2	13	2.50	178	6727	65.8	22	120.0	619	1720	16.8	31	6200	10	15	.1
5	0.07	2	7277	71.2	14	3.80	224	6549	64.0	23	190.0	439	1101	10.8	32	9500	4	5	.0
6	0.10	45	7275	71.1	15	5.90	330	6325	61.9	24	300.0	206	662	6.5	33	15000	1	1	
7	0.20	44	7230	70.7	16	9.20	352	5995	58.6	25	460.0	168	456	4.5	34				
8	0.30	25	7186	70.3	17	14.00	705	5643	55.2	26	700.0	103	288	2.8					

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## NORTH FORK RED RIVER NEAR CARTER, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1946	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.03 5	9.77 8	42.60 5
1947	0.00 2	0.00 2	0.00 2	0.00 2	0.00 2	0.02 9	0.48 8	0.40 7	13.00 10	69.50 8
1948	0.00 3	0.00 3	0.00 3	0.00 3	0.00 3	0.00 2	0.00 2	0.22 6	1.53 5	188.00 22
1949	0.00 4	0.00 4	0.00 4	0.00 4	0.00 4	5.44 21	20.90 20	20.10 18	35.90 18	95.60 13
1950	0.00 5	0.00 5	0.00 5	0.00 5	0.15 19	1.61 16	11.90 17	11.90 16	21.00 12	158.00 19
1951	9.10 26	4.27 26	9.77 26	10.10 25	21.50 25	48.30 25	65.30 25	70.00 23	82.80 23	240.00 24
1952	0.00 6	0.00 6	0.00 6	0.00 6	0.00 5	1.21 15	8.71 16	7.23 13	16.70 11	271.00 26
1953	0.00 7	0.00 7	0.00 7	0.00 7	0.00 6	0.00 3	0.00 3	0.00 1	0.00 1	14.10 1
1954	0.00 8	0.00 8	0.00 8	0.00 8	0.00 7	3.60 18	5.67 13	5.37 11	31.10 15	37.50 3
1955	0.00 9	0.00 9	0.00 9	0.00 9	0.00 8	0.00 4	0.00 4	0.00 2	0.00 2	122.00 16
1956	0.00 10	0.00 10	0.00 10	0.00 10	0.00 9	0.13 13	1.30 9	2.84 9	37.40 20	100.00 14
1957	0.00 11	0.00 11	0.00 11	0.00 11	0.00 10	0.00 5	0.00 5	0.00 3	0.31 4	47.80 6
1958	0.00 12	0.00 12	0.00 12	0.00 12	0.00 11	0.00 6	2.95 12	5.14 10	8.44 7	183.00 21
1959	0.00 13	0.00 13	0.00 13	0.00 13	0.00 12	0.00 7	0.00 6	1.67 8	4.68 6	74.00 12
1960	0.00 14	0.00 14	0.00 14	0.00 14	0.48 21	4.99 19	29.40 22	33.10 22	69.90 22	270.00 25
1961	0.60 25	0.60 25	5.01 25	17.60 26	52.80 26	77.50 26	113.00 26	174.00 26	158.00 26	211.00 23
1962	0.00 15	0.00 15	0.00 15	0.00 15	2.12 23	14.30 23	16.20 18	29.80 21	49.10 21	167.00 20
1966	0.00 16	0.00 16	0.00 16	0.00 16	0.24 20	5.43 20	63.40 24	97.40 25	121.00 24	157.00 17
1967	0.00 17	0.00 17	0.00 17	0.00 17	0.00 13	0.30 14	1.87 11	17.50 17	26.00 13	39.10 4
1968	0.00 18	0.00 18	0.00 18	0.00 18	0.98 22	13.00 22	23.80 21	22.60 19	33.60 17	74.80 11
1969	0.00 19	0.00 19	0.00 19	0.00 19	2.61 24	42.30 24	50.70 23	77.90 24	121.00 25	157.00 18
1970	0.00 20	0.00 20	0.00 20	0.00 20	0.00 14	2.20 17	18.00 19	28.40 20	33.40 16	74.70 10
1971	0.00 21	0.00 21	0.00 21	0.00 21	0.00 15	0.00 8	0.00 7	0.00 4	0.00 3	28.30 2
1972	0.00 22	0.00 22	0.00 22	0.00 22	0.00 16	0.04 10	7.50 15	8.04 14	36.70 19	48.50 7
1973	0.00 23	0.00 23	0.00 23	0.00 23	0.00 17	0.04 11	6.10 14	6.58 12	12.60 9	71.10 9
1974	0.00 24	0.00 24	0.00 24	0.00 24	0.00 18	0.07 12	1.64 10	11.00 15	27.80 14	113.00 15

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## NORTH FORK RED RIVER NEAR CARTER, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1945	1830.0 23	730.0 26	360.0 26	244.0 25	159.0 24	142.0 23	129.0 22	126.0 21	114.0 19	81.5 17
1946	762.0 28	416.0 28	204.0 28	108.0 28	70.6 28	51.5 28	44.3 28	41.6 28	35.4 28	17.9 28
1947	8210.0 5	3650.0 8	2610.0 5	2150.0 3	1340.0 4	838.0 4	621.0 4	489.0 5	345.0 4	221.0 3
1948	3440.0 17	1920.0 18	940.0 18	563.0 18	348.0 19	208.0 19	157.0 19	174.0 18	135.0 18	70.5 19
1949	7200.0 7	4270.0 6	2340.0 7	1610.0 6	1270.0 5	776.0 5	546.0 6	458.0 6	359.0 3	193.0 5
1950	7730.0 6	5140.0 10	2160.0 8	1120.0 8	938.0 8	646.0 8	606.0 5	546.0 2	398.0 2	219.0 4
1951	14700.0 2	11200.0 2	6490.0 1	3340.0 1	2720.0 1	1490.0 1	1010.0 1	775.0 1	543.0 1	295.0 1
1952	1256.0 28	766.0 25	394.0 25	232.0 26	140.0 26	91.9 27	79.4 25	73.4 25	61.0 25	31.6 25
1953	1560.0 24	924.0 23	534.0 24	258.0 24	148.0 25	93.6 26	79.2 26	59.5 26	43.4 26	21.6 26
1954	9290.0 4	4580.0 5	2350.0 6	1500.0 7	1210.0 5	738.0 6	493.0 7	371.0 6	246.0 10	138.0 11
1955	4230.0 13	2840.0 11	1860.0 9	1020.0 10	712.0 11	471.0 11	317.0 12	238.0 13	157.0 15	78.9 18
1956	5750.0 15	2620.0 13	1390.0 14	706.0 17	523.0 13	285.0 16	191.0 17	150.0 19	101.0 20	68.4 20
1957	12900.0 3	6520.0 3	2920.0 4	2080.0 5	1680.0 2	990.0 2	672.0 2	511.0 3	338.0 5	170.0 8
1958	3140.0 19	2250.0 16	1520.0 12	745.0 15	496.0 15	327.0 14	268.0 14	221.0 14	166.0 14	88.7 16
1959	20700.0 1	12300.0 1	5820.0 2	2840.0 2	1590.0 3	925.0 3	637.0 3	489.0 4	324.0 7	167.0 9
1960	5580.0 10	2570.0 14	1220.0 17	756.0 14	478.0 16	409.0 13	358.0 10	306.0 11	247.0 9	188.0 6
1961	7140.0 8	4150.0 4	4110.0 3	2120.0 4	1200.0 7	673.0 7	492.0 8	408.0 7	336.0 6	261.0 2
1962	7030.0 9	3290.0 9	1540.0 11	938.0 12	566.0 12	500.0 10	358.0 11	309.0 10	268.0 6	170.0 7
1965	3150.0 18	2160.0 17	1410.0 13	998.0 11	787.0 9	418.0 12	296.0 13	248.0 12	177.0 13	110.0 13
1966	4450.0 12	2690.0 12	1370.0 15	711.0 16	392.0 18	230.0 18	188.0 18	176.0 17	137.0 17	95.0 15
1967	1940.0 22	1210.0 21	542.0 22	328.0 23	222.0 22	147.0 22	147.0 20	126.0 20	94.1 22	58.5 22
1968	1520.0 25	833.0 24	576.0 23	532.0 19	398.0 17	272.0 17	215.0 16	183.0 16	154.0 16	96.4 14
1969	5330.0 11	3740.0 7	1800.0 10	914.0 13	503.0 14	303.0 15	232.0 15	195.0 15	185.0 12	139.0 10
1970	2600.0 20	1330.0 20	750.0 19	406.0 20	260.0 20	166.0 21	129.0 23	116.0 22	97.2 21	52.5 23
1971	2040.0 21	1060.0 22	691.0 20	376.0 21	192.0 23	100.0 24	71.3 27	55.8 27	36.9 27	19.3 27
1972	3680.0 16	1490.0 19	688.0 21	342.0 22	258.0 21	192.0 20	135.0 21	104.0 23	79.7 23	65.9 21
1973	4030.0 14	2310.0 15	1240.0 16	1030.0 9	770.0 10	505.0 9	402.0 9	318.0 9	226.0 11	116.0 12
1974	1130.0 27	573.0 27	311.0 27	166.0 27	115.0 27	93.9 25	80.9 24	77.9 24	66.0 24	46.9 24

## STATISTICS OF ANNUAL DISCHARGE FOR WATER YEARS, 1945-62, 1965-74

Units of annual Discharge	Mean	Standard Deviation	Coefficient of Variation	Skew Coefficient	First Order Serial Correlation Coefficient
CFS	117	75.4	0.64	0.68	0.20
LOGS of CFS	1.963	0.336		-0.629	0.144



## RED RIVER BASIN

277

07302000 NORTH FORK RED RIVER NEAR GRANITE, OKLA.

LOCATION.--Lat 34°58'24", long 99°20'00", on south line sec.20, T.9 N., R.20 W., at bridge on State Highway 9, 2.5 mi (4.0 km) east of Granite, 6.4 mi (10.3 km) upstream from Lugert Dam, and at mile 80.0 (128.7 km).

DRAINAGE AREA.--2,494 mi<sup>2</sup> (6,459 km<sup>2</sup>), of which 399 mi<sup>2</sup> (1,033 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD.--July 1903 to March 1908, October 1938 to September 1944.

AVERAGE DISCHARGE.--11 years (1904-07, 1938-44), 178 ft<sup>3</sup>/s (5.04 m<sup>3</sup>/s).

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

NORTH FORK RED RIVER NEAR GRANITE, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS	
1904	267						10		6	1	2	4		1	1	6	5	7	7	8	7	6	2	7	6	1	2	3		4	3			17399.0		
1905	114						5		7		16	1	19	22	27		21	8	11	12	16	29	10	12	4	5	7	3	3	1	4	1	2		86246.0	
1906	40						1		2		2	1	5	7	7	17	17	49	52	37	45	16	16	15	11	6	8	3	3	4	1			68849.0		
1907	5															15	8	21	16	27	20	15	49	65	35	27	18	11	6	11	5	1	2	1	1	111906.0
1908	51	2	1		9	1	5		34	8	45	51	21	3	8	14	15	24	17	8	12	5	7	4	5	7	2	4	1					1	51326.1	
1939	149	1	2	1	1	6	4	3	6	4	8	9	26	16	10	20	17	15	9	15	7	8	4	1	4	4	5	1		1	2	1		35307.5		
1940	304	6	2	2	3	6	1	3	4	4	5	6	5	4	1		5		1	1					2		1							2305.1		
1941	72	2	3	1	3	1	1	3	5	4	3	10	14	14	21	34	17	19	14	17	23	10	7	19	8	3	9	10	4	5		1	4	104750.7		
1942	7	1			1	2	2	1			4	3	4	4	4	8	7	20	25	49	77	50	26	25	18	8	6	4	1	4	2	4	2		129426.7	
1943	83	2	1		1	1	2		4	2	4		4	4	7	4	11	17	19	28	56	39	32	24	9	5	1	1	1			3		59296.2		
1944	83	5	1		1	2	1	2	4	2	4	3	4	9	8	22	18	37	56	37	30	19	6	7	11	2	4		1	2		1		42316.7		

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	1180	4018	100.0	9	2.30	25	2646	65.9	18	52.0	215	1613	40.1	27	1200	40	117	2.9
1	0.10	19	2838	70.6	10	3.20	89	2621	65.2	19	73.0	227	1398	34.8	28	1700	19	77	1.9
2	0.20	10	2819	70.2	11	4.50	97	2532	63.0	20	100.0	322	1171	29.1	29	2300	22	58	1.4
3	0.30	4	2804	69.9	12	6.40	105	2455	60.6	21	150.0	247	849	21.1	30	3300	17	36	.8
4	0.40	18	2805	69.8	13	9.10	99	2330	58.0	22	210.0	145	602	15.0	31	4700	10	19	.4
5	0.60	16	2787	69.4	14	13.00	100	2231	55.5	23	290.0	141	457	11.4	32	6600	7	9	.2
6	0.80	37	2769	68.9	15	18.00	146	2131	53.0	24	410.0	96	316	7.9	33	9400	2	2	.0
7	1.10	13	2732	68.0	16	26.00	149	1945	49.4	25	580.0	52	220	5.5	34				
8	1.60	73	2714	67.7	17	36.00	223	1836	45.7	26	830.0	51	168	4.2					

CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT
0	0.00	1180	4018	100.0	9	2.30	25	2646	65.9	18	52.0	215	1613	40.1	27	1200	40	117	2.9	28	1700	19	77	1.9
1	0.10	19	2838	70.6	10	3.20	89	2621	65.2	19	73.0	227	1398	34.8	29	2300	22	58	1.4	30	3300	17	36	.8
2	0.20	10	2819	70.2	11	4.50	97	2532	63.0	20	100.0	322	1171	29.1	31	4700	10	19	.4	32	6600	7	9	.2
3	0.30	4	2804	69.9	12	6.40	105	2435	60.6	21	150.0	247	849	21.1	33	9400	2	2	.0					
4	0.40	14	2805	69.8	13	9.10	99	2330	58.0	22	210.0	145	602	15.0										
5	0.60	14	2787	69.4	14	13.00	100	2231	55.5	23	290.0	141	457	11.4										
6	0.80	37	2769	68.9	15	18.00	146	2131	53.0	24	410.0	96	316	7.9										
7	1.10	17	2732	68.0	16	26.00	149	1985	49.4	25	580.0	52	220	5.5										
8	1.60	73	2714	67.7	17	36.00	223	1836	45.7	26	830.0	51	168	4.2										

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

NORTH FORK RED RIVER NEAR GRANITE, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1905	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	2.04 2	150.00 5
1906	0.00 2	0.00 2	0.00 2	0.00 2	0.00 2	11.90 6	40.60 6	52.90 6	78.70 6	230.00 6
1907	5.00 10	15.70 10	23.70 10	37.10 10	68.00 10	129.00 10	184.00 10	237.00 10	279.00 10	309.00 8
1908	0.00 3	0.00 3	4.29 8	20.10 9	52.20 9	119.00 8	121.00 8	134.00 7	214.00 7	260.00 7
1939	0.00 4	0.00 4	0.00 3	0.00 3	0.00 3	0.00 2	0.05 5	1.99 5	2.98 3	93.10 4
1940	0.00 5	0.00 5	0.00 4	0.00 4	0.00 4	0.00 3	0.00 2	0.00 2	0.16 1	83.60 3
1941	0.00 6	0.00 6	0.00 5	0.00 5	0.00 5	0.00 4	0.00 3	0.65 3	6.00 5	17.50 1
1942	1.50 9	1.60 9	4.50 9	18.80 8	37.40 8	122.00 9	133.00 9	146.00 8	250.00 8	418.00 10
1943	0.00 7	0.00 7	0.13 7	0.50 7	22.20 7	71.40 7	77.80 7	180.00 9	234.00 8	357.00 9
1944	0.00 8	0.00 8	0.00 6	0.00 6	0.00 6	0.00 5	0.00 4	1.39 4	4.71 4	60.60 2

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

NORTH FORK RED RIVER NEAR GRANITE, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1904	3540.0 10	2560.0 8	1690.0 7	1150.0 7	856.0 4	499.0 5	403.0 7	312.0 7	204.0 7	102.0 8
1905	12200.0 1	7970.0 1	4070.0 1	2080.0 2	1140.0 3	812.0 3	660.0 3	578.0 3	432.0 3	236.0 4
1906	3960.0 9	2100.0 9	1290.0 9	725.0 10	515.0 10	423.0 8	408.0 6	372.0 5	295.0 5	189.0 5
1907	7500.0 4	3290.0 6	1980.0 6	1160.0 6	848.0 5	626.0 4	490.0 4	442.0 4	326.0 4	307.0 2
1908	5290.0 6	2680.0 7	1670.0 8	918.0 9	577.0 9	409.0 9	320.0 8	248.0 9	169.0 10	85.8 10
1939	5880.0 5	4250.0 4	2230.0 5	1330.0 5	703.0 7	438.0 7	319.0 9	250.0 8	184.0 9	96.7 9
1940	906.0 11	338.0 11	152.0 11	70.9 11	37.7 11	19.1 11	23.9 11	18.2 11	12.4 11	6.3 11
1941	9350.0 2	6130.0 2	3750.0 2	2190.0 1	2080.0 1	1380.0 1	1030.0 1	790.0 1	575.0 1	298.0 3
1942	8940.0 3	5320.0 3	3190.0 3	1930.0 3	1190.0 2	969.0 2	823.0 2	648.0 2	472.0 2	355.0 1
1943	4560.0 8	3640.0 5	2510.0 4	1370.0 4	802.0 6	493.0 6	420.0 5	360.0 6	276.0 6	162.0 6
1944	4850.0 7	2090.0 10	1110.0 10	926.0 8	577.0 8	364.0 10	278.0 10	227.0 10	187.0 8	116.0 7

STATISTICS OF ANNUAL DISCHARGE FOR WATER YEARS, 1904-07, 1938-44

Units of annual Discharge	Mean	Standard Deviation	Coefficient of Variation	Skew Coefficient	First Order Serial Correlation Coefficient
CFS	178	110	0.62	0.249	0.05
LOGS of CFS	2.106	0.485		-2.162	-0.034

## RED RIVER BASIN

07303000 NORTH FORK RED RIVER BELOW ALTUS DAM, NEAR LUGERT, OKLA.

LOCATION.--Lat 34°53'26", long 99°18'22", in SW 1/4 sec.22, T.15 N., R.20 W., Greer County, on right bank 3,500 ft (1,067 m) downstream from Altus Dam, 1.9 mi (3.1 km) upstream from Elm Fork of North Fork, 2.0 mi (3.2 km) west of Lugert, and at mile 72.8 (117.1 km).

DRAINAGE AREA.--2,515 mi<sup>2</sup> (6,514 km<sup>2</sup>), of which 399 mi<sup>2</sup> (1,033 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD.--October 1950 to September 1962, August 1964 to September 1969.

REMARKS.--Flow completely regulated by Lake Altus. Diversions at Lake Altus bypass most of streamflow. Seepage from Altus Dam not included except for period March 1951 to January 1953.

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

NORTH FORK RED RIVER BELOW ALTUS DAM NEAR LUGERT, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS	
1951	196						16	6	4	6	5	5	7	2	2	9	6	9	7	5	9	22	7	2	7	2	3	4	2	14	3	1	2	2	89980.8	
1952	65						66	18	34	63	55	54	10	1																					164.2	
1953	271						8	4		16	25	41																							75.3	
1954	365																																			0.0
1955	365																																			0.0
1956	366																																			0.0
1957	339							1						1	2	2		3	1	1	1	9	5												1266.6	
1958	365																																			0.0
1959	321										1	2		2		5	4	2	4		1	1	4	3	4	2				3	5				17288.0	
1960	243						2		1	1		3	2		2	5	3	11	5	2	4	2		4	18	13	13	15	6	5	6					40646.3
1961	115						6	3	1	3	2	1	2	8	9	6	11	18	7	5	10	4	25	30	46	16	8	9	3	14	2		1		78542.2	
1962	328						1						1		2	3	4	2				1		1	3		2	2	6	9					28612.3	
1965	365																																			0.0
1966	365																																			0.0
1967	365																																			0.0
1968	366																																			0.0
1969	329	1		2	1	2			2	2	2		2		2	1			1		1	1	3	1	3		4	3		2					10119.3	

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	5129	6209	100.0	9	0.40	91	901	14.5	18	16.0	22	448	7.2	27	670	24	104	1.6	28	1000	19	80	1.2
1	0.01	1	1080	17.4	10	0.60	90	810	13.0	19	25.0	15	426	6.9	28	1000	19	80	1.2	29	1500	50	61	.9
2	0.02	0	1079	17.4	11	0.90	106	720	11.6	20	37.0	24	411	6.6	29	1500	50	61	.9	30	2300	5	11	.1
3	0.03	2	1079	17.4	12	1.40	24	614	9.9	21	56.0	38	387	6.2	30	2300	5	11	.1	31	3500	1	6	.0
4	0.05	1	1077	17.3	13	2.10	16	590	9.5	22	85.0	45	349	5.6	31	3500	1	6	.0	32	5300	3	5	.0
5	0.07	2	1076	17.3	14	3.10	22	574	9.2	23	150.0	56	304	4.9	32	5300	3	5	.0	33	8000	2	2	.0
6	0.10	99	1074	17.3	15	4.70	29	552	8.9	24	190.0	75	248	4.0	33	8000	2	2	.0	34				
7	0.20	32	975	15.7	16	7.10	36	523	8.4	25	290.0	35	173	2.8										
8	0.30	42	943	15.2	17	11.00	39	487	7.8	26	440.0	34	138	2.2										

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

NORTH FORK RED RIVER BELOW ALTUS DAM NEAR LUGERT, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL	
1952	0.00 1	0.00 1	0.00 1	0.00 1	0.01 15	0.02 15	0.04 15	0.08 14	0.17 14	0.39 14	237.00 15
1953	0.00 2	0.00 2	0.00 2	0.00 1	0.00 1	0.00 1	0.04 13	0.09 13	0.24 13	0.37 10	
1954	0.00 3	0.00 3	0.00 3	0.00 2	0.00 2	0.00 2	0.00 1	0.00 1	0.00 1	0.00 1	
1955	0.00 4	0.00 4	0.00 4	0.00 3	0.00 3	0.00 3	0.00 2	0.00 2	0.00 2	0.00 2	
1956	0.00 5	0.00 5	0.00 5	0.00 4	0.00 4	0.00 4	0.00 3	0.00 3	0.00 3	0.00 3	
1957	0.00 6	0.00 6	0.00 6	0.00 5	0.00 5	0.00 5	0.00 4	0.00 4	0.00 4	0.00 4	
1958	0.00 7	0.00 7	0.00 7	0.00 6	0.00 6	0.00 6	0.00 5	0.00 5	0.00 5	3.47 11	
1959	0.00 8	0.00 8	0.00 8	0.00 7	0.00 7	0.00 7	0.00 6	0.00 6	0.00 6	0.00 5	
1960	0.00 9	0.00 9	0.00 9	0.00 8	0.00 8	0.00 8	0.00 7	0.00 7	0.03 12	120.00 13	
1961	0.00 10	0.00 10	0.00 10	0.00 9	0.00 9	0.00 9	70.40 15	55.70 15	71.10 15	150.00 14	
1962	0.00 11	0.00 11	0.00 11	0.00 10	0.00 10	0.00 10	0.00 8	0.00 8	0.00 7	104.00 12	
1966	0.00 12	0.00 12	0.00 12	0.00 11	0.00 11	0.00 11	0.00 9	0.00 9	0.00 8	0.00 6	
1967	0.00 13	0.00 13	0.00 13	0.00 12	0.00 12	0.00 12	0.00 10	0.00 10	0.00 9	0.00 7	
1968	0.00 14	0.00 14	0.00 14	0.00 13	0.00 13	0.00 13	0.00 11	0.00 11	0.00 10	0.00 8	
1969	0.00 15	0.00 15	0.00 15	0.00 14	0.00 14	0.00 14	0.00 12	0.00 12	0.00 11	0.00 9	

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

NORTH FORK RED RIVER BELOW ALTUS DAM NEAR LUGERT, OKLAHOMA

	1	3	7	15	30	60	90	120	183	ANNUAL
1951	10600.0	1	4680.0	1	5300.0	1	3050.0	1	2650.0	1
1952	2.8	8	1.9	8	1.2	9	1.0	9	0.8	8
1953	1.3	9	1.3	9	1.3	9	1.1	8	1.0	8
1954	0.0	10	0.0	10	0.0	10	0.0	10	0.0	10
1955	0.0	11	0.0	11	0.0	11	0.0	11	0.0	11
1956	0.0	12	0.0	12	0.0	12	0.0	12	0.0	12
1957	110.0	7	93.3	7	90.0	7	77.3	7	42.2	7
1958	0.0	13	0.0	13	0.0	13	0.0	13	0.0	13
1959	1970.0	6	1450.0	4	977.0	6	575.0	6	375.0	5
1960	2030.0	4	1850.0	5	1280.0	4	776.0	4	527.0	4
1961	5670.0	2	5440.0	2	2670.0	2	2020.0	2	1070.0	2
1962	2050.0	5	1970.0	3	1750.0	3	1650.0	3	952.0	3
1965	0.0	14	0.0	14	0.0	14	0.0	14	0.0	14
1966	0.0	15	0.0	15	0.0	15	0.0	15	0.0	15
1967	0.0	16	0.0	16	0.0	16	0.0	16	0.0	16
1968	0.0	17	0.0	17	0.0	17	0.0	17	0.0	17
1969	2280.0	3	1640.0	6	1110.0	5	626.0	5	557.0	6

## RED RIVER BASIN

279

07303400 ELM FORK OF NORTH FORK RED RIVER NEAR CARL, OKLA.

LOCATION.--Lat 35°00'42", long 99°54'12", in SW 1/4 NW 1/4 sec.12, T.6 N., R.26 W., Harmon County, near left bank on downstream side of pier of bridge on State Highway 30, 4.0 mi (6.4 km) northeast of Carl, and at mile 54.0 (86.9 km).

DRAINAGE AREA.--416 mi<sup>2</sup> (1,077 km<sup>2</sup>).

PERIOD OF RECORD.--October 1959 to September 1974.

AVERAGE DISCHARGE.--15 years (1960-74), 39.2 ft<sup>3</sup>/s (1.11 m<sup>3</sup>/s).

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

ELM FORK OF NORTH FORK RED RIVER NEAR CARL, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
YEAR	NUMBER OF DAYS IN CLASS																																		CFS-DAYS
1960																																			13379.0
1961																																			19527.9
1962																																			20386.9
1963																																			9211.2
1964																																			9380.4
1965																																			16545.8
1966																																			14332.0
1967																																			16753.6
1968																																			17241.4
1969																																			13493.5
1970																																			3854.4
1971																																			7107.6
1972																																			17095.2
1973																																			20324.1
1974																																			15046.7

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	5479	100.0	9	0.50	46	5310	96.9	18	15.0	1175	2956	54.0	27	400	29	87	1.5					
1	0.02	10	5479	100.0	10	0.80	19	5264	96.1	19	21.0	798	1781	32.5	28	580	29	58	1.0					
2	0.04	3	5469	99.8	11	1.10	49	5245	95.7	20	31.0	332	983	17.9	29	840	7	29	.5					
3	0.06	1	5466	99.8	12	1.60	118	5196	94.8	21	44.0	240	651	11.9	30	1200	11	22	.4					
4	0.08	0	5465	99.7	13	2.40	111	5078	92.7	22	64.0	124	411	7.5	31	1800	7	11	.2					
5	0.10	35	5465	99.7	14	3.40	185	4967	90.7	23	93.0	70	267	5.2	32	2500	3	4	.0					
6	0.20	41	5430	99.1	15	4.90	311	4782	87.3	24	130.0	57	217	4.0	33	3700	1	1	.0					
7	0.30	51	5389	98.4	16	7.10	532	4471	81.6	25	190.0	44	160	2.9	34									
8	0.40	28	5338	97.4	17	10.00	983	3939	71.9	26	280.0	29	116	2.1										

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

ELM FORK OF NORTH FORK RED RIVER NEAR CARL, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1961	9.70 14	9.80 14	10.20 14	10.70 14	15.60 14	26.40 14	26.00 14	30.70 14	31.30 11	53.70 10
1962	7.00 13	7.33 13	7.97 13	8.75 13	9.40 10	10.10 9	11.10 7	13.30 6	14.70 6	24.20 3
1963	4.80 11	5.27 11	5.83 11	7.16 10	13.20 13	20.10 13	19.90 12	20.90 12	23.00 10	59.00 13
1964	0.10 2	0.13 4	0.37 5	0.84 4	1.96 4	2.49 3	4.81 3	9.56 4	10.40 2	20.60 2
1965	0.10 3	0.10 2	0.11 2	0.16 2	0.84 3	1.36 2	4.77 2	5.19 2	12.60 4	27.30 5
1966	1.10 6	1.30 6	1.57 6	2.26 6	3.43 6	7.42 7	19.80 11	19.90 11	37.20 14	55.50 12
1967	0.20 5	0.23 5	0.29 4	1.51 5	4.82 8	5.71 5	8.23 4	16.00 9	18.10 7	32.40 7
1968	1.60 9	1.87 9	2.80 9	3.74 9	6.79 9	14.00 10	14.90 9	15.70 8	19.60 8	46.60 8
1969	1.80 10	2.70 10	4.24 10	7.41 12	11.90 12	17.50 12	23.10 13	25.20 13	34.20 13	54.60 11
1970	1.40 7	1.60 7	1.91 7	3.24 8	3.48 7	5.15 4	12.30 8	13.40 7	14.10 5	27.50 6
1971	0.11 4	0.13 3	0.19 3	0.27 3	0.27 1	0.33 1	1.09 1	1.15 1	2.46 1	7.11 1
1972	0.02 1	0.02 1	0.02 1	0.03 1	0.71 2	7.06 6	9.20 6	11.20 5	22.30 9	26.30 4
1973	1.50 8	1.80 8	2.09 8	2.32 7	3.39 5	8.01 8	8.96 5	9.56 3	12.20 3	47.10 9
1974	6.60 12	6.23 12	6.40 12	7.24 11	10.70 11	15.40 11	16.60 10	17.90 10	33.70 12	60.70 14

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

ELM FORK OF NORTH FORK RED RIVER NEAR CARL, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1960	546.0 14	295.0 14	161.0 14	96.6 14	66.3 14	58.4 14	56.0 12	50.4 12	43.4 11	36.6 11
1961	1700.0 8	893.0 7	558.0 4	340.0 3	234.0 3	146.0 5	114.0 3	94.1 5	78.2 3	53.5 3
1962	4090.0 1	1600.0 2	723.0 2	354.0 4	186.0 5	147.0 4	109.0 4	110.0 2	94.8 1	55.9 1
1963	592.0 13	477.0 13	357.0 11	204.0 10	111.0 12	61.1 12	46.3 14	39.8 14	33.2 13	25.2 13
1964	1550.0 9	1140.0 4	555.0 5	270.0 5	143.0 9	102.0 8	71.3 10	57.0 11	43.4 12	25.6 12
1965	3660.0 2	2020.0 1	937.0 1	545.0 1	303.0 1	156.0 2	116.0 2	101.0 3	73.6 5	45.3 7
1966	2060.0 5	1010.0 6	467.0 7	234.0 7	177.0 6	114.0 6	82.1 8	63.5 6	46.6 9	42.0 8
1967	2030.0 6	785.0 9	365.0 9	227.0 7	147.0 7	84.2 11	94.6 7	81.2 7	73.6 6	45.9 6
1968	3110.0 3	1230.0 3	559.0 6	266.0 6	143.0 10	112.0 7	101.0 6	91.5 6	76.7 4	47.1 4
1969	877.0 12	533.0 12	297.0 13	179.0 12	140.0 11	87.1 9	68.9 11	59.0 10	46.3 10	37.0 10
1970	84.0 15	50.7 15	32.0 15	24.1 15	21.8 15	19.0 15	18.3 15	17.4 15	16.5 15	10.6 15
1971	1210.0 10	636.0 11	352.0 12	192.0 11	105.0 13	60.5 13	49.9 13	43.3 13	30.4 14	19.5 14
1972	2030.0 7	861.0 8	412.0 8	233.0 8	200.0 4	150.0 3	105.0 5	95.7 4	71.2 7	46.7 5
1973	2780.0 4	1130.0 5	636.0 5	430.0 2	265.0 2	195.0 1	159.0 1	126.0 1	90.7 2	55.7 2
1974	1090.0 11	697.0 10	359.0 10	176.0 13	145.0 8	86.0 10	75.3 9	61.7 9	49.3 8	41.2 9

## STATISTICS OF ANNUAL DISCHARGE FOR WATER YEARS, 1960-74

Units of annual Discharge	Mean	Standard Deviation	Coefficient of Variation	Skew Coefficient	First Order Serial Correlation Coefficient
CFS	39.2	13.5	0.35	-0.75	0.30
LOGS of CFS	1.558	0.199		-1.608	0.321

LOCATION.--Lat 34°55'36", long 99°30'00", on east line sec.10, T.5 N., R.22 W., Greer County, at bridge on U.S. Highway 283, 3.0 mi (4.8 km) north of Mangum, 5.0 mi (8.0 km) downstream from Haystack Creek, and at mile 17.8 (28.6 km).

PERIOD OF RECORD.--April 1905 to March 1908 (published as Elm Fork of Red River), March 1930 to September 1931, October 1937 to September 1947, April 1965 to September 1967, August 1968 to September 1974.

AVERAGE DISCHARGE.--21 years (1906-7, 1931, 1938-47, 1966-67, 1969-74), 100 ft<sup>3</sup>/s (2.83 m<sup>3</sup>/s).

ELM FORK OF NORTH FORK RED RIVER NEAR MANGUM, OKLAHOMA

[illegible]

## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## ELM FORK OF NORTH FORK RED RIVER NEAR MANGUM, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1907	10.00 17	17.00 18	19.70 18	24.10 18	87.50 19	154.00 19	193.00 19	220.00 19	242.00 19	255.00 18
1908	20.00 19	20.00 19	29.90 19	32.40 19	39.00 18	79.00 18	82.20 18	86.80 18	194.00 18	232.00 17
1931	3.00 15	3.67 15	4.14 15	4.36 12	5.43 12	9.80 11	28.00 14	43.60 16	60.90 14	86.00 12
1939	1.70 11	1.73 10	1.77 10	1.79 9	2.55 7	7.20 6	13.10 8	34.90 14	28.30 9	105.00 14
1940	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	3.34 3	4.89 2	6.55 2	9.17 2	65.20 9
1941	0.00 2	0.00 2	0.00 2	0.26 6	1.74 6	9.08 8	9.73 6	9.87 4	24.70 7	34.80 2
1942	2.30 13	2.60 14	3.06 13	10.50 15	31.50 17	33.80 16	35.80 16	40.70 15	88.10 15	291.00 19
1943	13.00 18	13.30 17	13.70 17	22.60 17	29.80 16	44.60 17	56.10 17	58.80 17	106.00 16	164.00 16
1944	1.00 9	1.40 9	1.70 9	2.09 10	4.04 11	9.13 9	9.97 7	23.00 11	25.10 8	48.10 5
1945	1.80 12	2.13 12	2.51 12	4.99 14	12.00 14	19.70 14	22.00 13	24.80 12	30.30 10	61.70 8
1946	0.00 3	0.00 3	0.00 3	0.09 4	1.42 5	7.43 7	7.25 3	8.00 3	10.70 3	48.00 4
1947	0.00 4	0.00 4	0.00 4	0.00 2	0.06 3	15.60 13	18.30 11	20.50 9	47.10 13	55.30 7
1966	1.40 10	1.80 11	2.27 11	3.11 11	4.01 10	6.42 5	33.20 15	34.70 13	112.00 17	150.00 15
1967	0.10 7	0.16 7	0.66 7	0.75 7	3.15 9	5.08 4	9.01 5	15.20 6	20.00 6	44.70 3
1970	2.40 14	2.50 13	4.00 14	4.98 13	9.18 13	14.40 12	15.40 9	16.40 7	17.60 4	68.00 10
1971	0.00 5	0.00 5	0.00 5	0.00 3	0.04 2	0.11 1	1.71 1	2.84 1	3.40 1	9.11 1
1972	0.00 6	0.00 6	0.00 6	0.14 5	1.08 4	2.69 2	8.03 4	12.90 5	32.20 11	49.70 6
1973	0.73 8	0.98 8	1.21 8	1.35 8	2.73 8	9.45 10	16.20 10	17.10 8	18.60 5	82.10 11
1974	9.20 16	9.73 16	10.00 16	11.40 16	16.30 15	21.00 15	20.90 12	22.50 10	46.80 12	102.00 13

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## ELM FORK OF NORTH FORK RED RIVER NEAR MANGUM, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1906	3020.0 13	1590.0 14	859.0 14	578.0 12	439.0 11	364.0 7	331.0 5	315.0 4	267.0 4	155.0 4
1907	7360.0 4	3730.0 4	1740.0 5	1110.0 4	886.0 3	602.0 3	450.0 3	372.0 3	331.0 2	253.0 2
1931	1740.0 17	847.0 18	476.0 18	309.0 18	163.0 19	112.0 17	111.0 17	96.6 18	88.6 17	62.4 16
1938	5500.0 6	2050.0 10	1260.0 8	735.0 8	509.0 8	380.0 5	288.0 7	229.0 7	168.0 7	87.9 10
1939	5250.0 7	3120.0 7	1400.0 7	712.0 9	544.0 7	295.0 11	227.0 8	178.0 9	141.0 10	83.6 11
1940	1050.0 20	731.0 19	338.0 20	159.0 20	102.0 20	67.0 20	47.6 20	40.9 20	44.8 20	27.8 20
1941	8870.0 3	4530.0 2	2890.0 2	1720.0 2	1620.0 1	1150.0 1	883.0 1	686.0 1	492.0 1	259.0 1
1942	6660.0 5	3220.0 6	2320.0 3	1270.0 3	777.0 4	464.0 4	370.0 4	286.0 5	221.0 5	155.0 5
1943	2950.0 14	1650.0 13	1240.0 10	647.0 11	367.0 12	213.0 13	170.0 14	142.0 14	111.0 14	79.4 13
1944	2370.0 16	1040.0 15	505.0 17	411.0 16	241.0 16	204.0 14	145.0 15	121.0 15	98.7 15	68.8 15
1945	2540.0 15	1040.0 16	684.0 16	451.0 14	311.0 15	201.0 15	143.0 16	118.0 16	90.2 16	56.6 17
1946	1290.0 18	721.0 20	348.0 19	190.0 19	168.0 18	109.0 18	79.0 19	76.3 19	63.8 19	38.2 18
1947	15700.0 1	6040.0 1	3560.0 1	2240.0 1	1250.0 2	751.0 2	562.0 2	446.0 2	298.0 3	172.0 3
1966	9320.0 2	4410.0 3	1990.0 4	973.0 6	508.0 9	271.0 12	192.0 13	154.0 13	113.0 13	91.5 8
1967	4400.0 9	1990.0 11	902.0 12	495.0 13	348.0 14	188.0 16	207.0 11	183.0 8	143.0 9	81.3 12
1969	3810.0 11	2270.0 9	1250.0 9	998.0 5	560.0 5	312.0 8	220.0 10	177.0 10	125.0 11	90.1 9
1970	456.0 21	248.0 21	123.0 21	60.9 21	32.3 21	26.5 21	25.9 21	24.3 21	22.6 21	15.3 21
1971	1290.0 19	971.0 17	705.0 15	348.0 17	180.0 17	107.0 19	98.8 18	100.0 17	67.2 18	36.8 19
1972	3410.0 12	1930.0 12	876.0 13	429.0 15	358.0 13	298.0 9	204.0 12	163.0 12	117.0 12	74.7 14
1973	4920.0 8	2300.0 8	1070.0 11	657.0 10	501.0 10	370.0 6	321.0 6	251.0 6	175.0 6	102.0 7
1974	3970.0 10	3720.0 5	1710.0 6	816.0 7	548.0 6	296.0 10	221.0 9	171.0 11	158.0 8	103.0 6

## STATISTICS OF ANNUAL DISCHARGE FOR WATER YEARS, 1906-7, 1938-47, 1966-67, 1969-74

Units of annual Discharge	Mean	Standard Deviation	Coefficient of Variation	Skew Coefficient	First Order Serial Correlation Coefficient
CFS	99.7	65.7	0.66	1.31	0.10
LOGS of CFS	1.909	0.300		-0.469	0.105



07304500 ELK CREEK NEAR HOBART, OKLA.

LOCATION.--Lat 34°54'51", long 99°06'49", in NE 1/4 NE 1/4 sec.17, T.5 N., R.18 W., Kiowa County, near right bank on downstream side of pier of county road bridge, 7.0 mi (11.3 km) downstream from Little Elk Creek, 7.5 mi (12 km) south of Hobart, and at mile 10.9 (17.5 km).

DRAINAGE AREA. -- 549 mi<sup>2</sup> (1,422 km<sup>2</sup>).

PERIOD OF RECORD.--September 1904 to March 1908, October 1949 to September 1974.

AVERAGE DISCHARGE.--28 years (1905-7, 1950-74), 68.0 ft<sup>3</sup>/s (1.93 m<sup>3</sup>/s).

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

ELK CREEK NEAR HUBART, OKLAHOMA

[illegible]

## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## ELK CREEK NEAR HUBART, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1906	5.00 22	5.00 22	5.57 22	6.07 20	7.17 18	9.52 18	12.70 18	14.00 17	13.20 14	55.40 12
1907	12.00 27	16.00 27	17.00 27	22.60 27	31.40 27	39.00 27	42.50 24	45.80 25	42.90 21	79.10 15
1908	8.00 26	9.33 26	11.40 26	15.00 26	22.30 26	35.10 26	45.90 26	61.10 26	87.40 23	134.00 25
1951	1.30 17	1.73 17	2.06 18	5.57 18	7.21 19	7.96 17	8.23 16	8.36 15	9.03 10	71.30 14
1952	1.80 18	1.73 18	1.76 17	2.04 17	3.70 16	4.18 14	4.24 11	4.21 9	5.68 8	107.00 20
1953	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.03 2	0.21 2	12.40 3
1954	0.00 2	0.00 2	0.00 2	0.00 2	0.00 2	0.64 8	0.71 5	6.03 14	18.50 16	24.50 9
1955	0.00 3	0.00 3	0.00 3	0.00 3	0.00 3	0.00 2	0.00 2	0.00 1	0.00 1	15.90 5
1956	0.00 4	0.00 4	0.00 4	0.00 4	0.00 4	5.18 15	5.37 12	5.51 11	87.20 22	100.00 17
1957	0.00 5	0.00 5	0.00 5	0.00 5	0.00 5	0.00 3	0.29 3	0.40 3	1.04 3	10.20 2
1958	1.00 16	1.00 16	1.00 16	1.06 15	1.51 15	5.39 16	5.73 14	5.75 12	9.44 11	150.00 26
1959	0.00 6	0.00 6	0.00 6	0.02 10	0.15 10	0.29 4	0.40 4	0.65 4	1.37 4	15.70 7
1960	3.70 21	4.07 21	4.59 21	6.76 22	15.00 24	22.10 24	70.80 27	83.40 27	142.00 27	165.00 27
1961	6.90 24	7.23 24	7.60 24	8.75 24	10.10 22	13.90 21	43.90 25	45.40 24	52.40 20	85.60 16
1962	7.10 25	7.63 25	9.90 25	14.00 25	16.30 25	26.40 25	29.80 23	34.00 23	109.00 26	110.00 21
1963	6.00 23	6.07 23	6.27 23	6.71 21	10.80 23	19.10 22	20.80 21	22.20 20	28.90 17	101.00 18
1964	0.00 14	0.30 14	0.40 14	0.49 14	0.98 14	3.38 12	3.52 10	5.99 13	12.90 13	32.70 10
1965	0.00 7	0.00 7	0.00 7	0.00 6	0.10 9	3.58 13	5.71 13	5.04 10	16.20 15	18.50 8
1966	0.00 8	0.00 8	0.00 8	0.09 12	0.71 13	1.66 11	7.91 15	30.90 21	106.00 25	116.00 22
1967	0.00 9	0.00 9	0.00 9	0.01 9	0.09 8	1.54 10	2.40 9	3.74 8	4.00 7	7.88 1
1968	0.00 10	0.00 10	0.00 10	0.00 7	0.04 6	0.44 7	1.28 7	2.09 6	3.05 6	13.60 4
1969	5.30 19	5.57 19	4.07 20	5.71 19	7.35 20	21.80 23	25.50 22	31.30 22	91.60 24	105.00 19
1970	5.30 20	5.43 19	5.47 19	7.63 23	8.40 21	10.90 19	10.70 17	11.20 16	11.80 12	125.00 23
1971	0.00 11	0.00 11	0.00 11	0.00 8	0.06 7	0.41 6	1.24 6	1.60 5	2.59 5	14.30 6
1972	0.00 12	0.00 12	0.01 12	0.05 11	0.34 11	0.39 5	14.20 19	15.60 18	51.90 19	61.70 13
1973	0.18 13	0.24 13	0.26 13	0.33 13	0.40 12	0.83 9	1.31 8	3.50 7	6.04 9	49.90 11
1974	0.01 15	0.01 15	0.00 15	1.42 16	5.22 17	13.20 20	17.40 20	19.70 19	48.50 18	126.00 24

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## ELK CREEK NEAR HUBART, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1905	3260.0 15	2230.0 14	1190.0 13	630.0 14	341.0 16	208.0 16	154.0 16	129.0 16	101.0 15	57.9 14
1906	1620.0 27	860.0 25	354.0 24	149.0 23	167.0 21	107.0 21	86.8 19	79.5 19	66.9 19	40.3 19
1907	5000.0 6	3070.0 7	1400.0 11	774.0 10	662.0 6	408.0 4	298.0 5	238.0 6	198.0 5	130.0 5
1950	2910.0 18	2140.0 15	1470.0 10	871.0 8	541.0 9	302.0 9	243.0 8	196.0 6	133.0 4	70.9 11
1951	5670.0 4	4780.0 5	2860.0 2	1460.0 3	1110.0 3	600.0 3	409.0 3	312.0 3	208.0 4	108.0 8
1952	1400.0 25	674.0 24	302.0 25	155.0 25	81.2 25	71.6 24	49.2 24	37.9 25	26.3 26	14.8 27
1953	1630.0 23	645.0 26	277.0 27	129.0 27	64.7 27	59.4 25	42.9 26	45.5 22	30.8 24	15.7 26
1954	1290.0 26	1040.0 21	484.0 22	264.0 22	155.0 22	82.9 22	55.6 22	41.9 24	30.9 23	23.0 22
1955	3070.0 16	1470.0 18	876.0 17	696.0 13	386.0 14	254.0 12	173.0 14	132.0 15	87.2 16	43.9 17
1956	10100.0 1	8170.0 2	2810.0 3	1320.0 4	666.0 5	336.0 7	226.0 9	171.0 10	114.0 12	66.4 12
1957	4240.0 10	3340.0 6	1940.0 5	1620.0 2	1330.0 1	821.0 1	579.0 1	438.0 1	289.0 1	146.0 2
1958	2050.0 19	1220.0 20	552.0 21	266.0 21	152.0 23	80.8 23	54.6 23	43.7 23	31.3 22	19.5 23
1959	4620.0 11	2160.0 16	998.0 16	479.0 17	388.0 13	228.0 15	263.0 7	205.0 7	166.0 7	84.6 9
1960	3410.0 13	2640.0 10	1500.0 9	719.0 12	371.0 15	230.0 14	186.0 12	165.0 11	165.0 8	110.0 7
1961	3280.0 14	2500.0 11	1350.0 12	876.0 7	485.0 10	267.0 10	196.0 11	158.0 12	118.0 11	113.0 6
1962	4460.0 9	2940.0 9	1850.0 6	1200.0 6	711.0 4	367.0 6	279.0 6	241.0 5	172.0 6	141.0 3
1963	1860.0 22	945.0 22	570.0 20	425.0 18	225.0 19	119.0 19	83.5 21	68.7 21	52.1 20	36.6 21
1964	1610.0 24	564.0 27	245.0 28	115.0 28	59.4 28	43.4 28	30.0 28	29.3 28	25.2 27	19.5 24
1965	5940.0 3	5170.0 3	2560.0 4	1210.0 5	607.0 8	304.0 8	204.0 10	181.0 9	129.0 10	74.4 10
1966	5490.0 5	3830.0 4	1720.0 7	833.0 9	440.0 11	235.0 13	171.0 15	140.0 14	106.0 13	59.0 13
1967	1800.0 21	843.0 23	378.0 23	182.0 24	103.0 24	54.6 26	43.3 25	33.1 27	24.0 28	13.9 28
1968	3000.0 17	2410.0 13	1150.0 14	615.0 15	411.0 12	255.0 11	180.0 13	152.0 13	106.0 14	54.8 16
1969	8870.0 2	6430.0 1	4170.0 1	2300.0 1	1210.0 2	633.0 2	444.0 2	344.0 2	245.0 2	171.0 1
1970	994.0 28	480.0 28	288.0 26	144.0 26	76.6 26	52.8 27	41.3 27	33.6 28	26.3 25	18.9 25
1971	4880.0 7	2480.0 12	1090.0 15	602.0 16	338.0 17	186.0 17	131.0 17	109.0 17	71.4 17	37.1 20
1972	3460.0 12	1710.0 17	781.0 19	382.0 20	200.0 20	118.0 20	86.0 20	71.0 20	51.9 21	41.5 18
1973	4260.0 8	2940.0 8	1550.0 8	771.0 11	446.0 7	393.0 5	327.0 4	271.0 4	238.0 3	136.0 4
1974	1990.0 20	1440.0 19	809.0 18	402.0 19	267.0 18	151.0 18	126.0 18	99.0 18	70.9 18	55.5 15

## STATISTICS OF ANNUAL DISCHARGE FOR WATER YEARS, 1905-07, 1950-74

Units of annual Discharge	Mean	Standard Deviation	Coefficient of Variation	Skew Coefficient	First Order Serial Correlation Coefficient
CFS	68.0	46.5	0.68	0.69	-0.04
LOGS of CFS	1.719	0.337		-0.257	0.060

## RED RIVER BASIN

07305000 NORTH FORK RED RIVER NEAR HEADRICK, OKLA.

LOCATION.--Lat 34°38'04", long 99°05'47", in NW 1/4 NE 1/4 sec.21, T.2 N., R.18 W., Tillman County, near left bank on downstream side of pier of bridge on U.S. Highway 62, 2.5 mi (4.0 km) east of Headrick, 12.9 mi (20.8 km) upstream from Otter Creek, and at mile 33.0 (53.1 km).

DRAINAGE AREA.--4,244 mi<sup>2</sup> (10,992 km<sup>2</sup>), of which 399 mi<sup>2</sup> (1,033 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD.--April 1905 to March 1908, October 1937 to September 1974. Statistical summaries for this station are divided into unregulated and regulated periods.

GAGE.--Water-stage recorder. Datum of gage is 1,294.83 ft (394.664 m) above mean sea level (Bureau of Reclamation bench mark). Prior to July 18, 1905, nonrecording gage at site 0.2 mi (0.3 km) downstream at different datum. July 18, 1905, to Mar. 30, 1908, nonrecording gage at Navajo damsite 10.4 mi (16.7 km) upstream at different datum. Oct. 1, 1937 to Jan. 29, 1969, water-stage recorder at present site at datum 5.0 ft (1.52 m) higher.

AVERAGE DISCHARGE.--8 years (1906-7, 1938-43), 455 ft<sup>3</sup>/s (12.9 m<sup>3</sup>/s); 30 years (1945-74), 260 ft<sup>3</sup>/s (7.36 m<sup>3</sup>/s).

REMARKS.--Flow regulated since December 1943 by storage and diversion at Lake Altus, 39.5 mi (63.6 km) above station. Diversions for irrigation of about 48,000 acres (194 km<sup>2</sup>) above station; some return flow may re-enter at Stinking Creek, 16 mi (26 km) below station.

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

NORTH FORK RED RIVER NEAR HEADRICK, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	
YEAR	NUMBER OF DAYS IN CLASS																																			CFS DAYS
1906																																				153035.0
1907																																				267580.0
1938	13	4	2		2	1	2	3	2	1	1	33	11	84	9	26	18	18	30	20	27	7	9	7	7	7	8	4	8		1				88867.3	
1939	52	2	1	1	4		1	1		16	24	26	20	19	29	19	22	26	20	21	11	12	11	4	6	5	5	3		1	1	2			73046.0	
1940	184	9	6	4	4	3	8	5	7	9	11	13	8	17	17	7	10	8	12	8	3	3	3	3	2	2									11768.1	
1941	14	10	5	3	5	1	2	3	1	3	6	12	28	25	24	10	13	17	28	28	10	19	15	10	7	12	14	12	10	4	3	5	5	1	314535.4	
1942																																				296144.0
1943	33	5	3	1	2	1	1	3	2	2	3	3	2	5	4	2	11	14	13	40	49	51	56	28	13	7	4	1	2	1	2	1			124739.0	

CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT
0	0.00	296	2921	100.0	9	2.60	31	2505	85.8	18	71.0	149	1700	58.2	27	1900	47	150	5.1					
1	0.10	30	2625	89.9	10	3.80	45	2474	84.7	19	100.0	214	1551	53.1	28	2700	45	103	3.5					
2	0.20	17	2595	88.8	11	5.50	87	2429	83.2	20	150.0	272	1337	45.8	29	3900	24	58	1.9					
3	0.30	9	2578	88.3	12	7.90	69	2342	80.2	21	210.0	269	1065	36.5	30	5700	12	34	1.1					
4	0.40	17	2569	87.9	13	11.00	150	2273	77.8	22	310.0	243	796	27.3	31	8200	10	22	.7					
5	0.60	6	2552	87.4	14	16.00	87	2123	72.7	23	440.0	172	553	18.9	32	12000	10	12	.4					
6	0.90	14	2546	87.2	15	24.00	96	2036	69.7	24	630.0	97	381	13.0	33	17000	2	2	.0					
7	1.30	15	2532	86.7	16	34.00	124	1940	66.4	25	910.0	72	284	9.7	34									
8	1.80	12	2517	86.2	17	49.00	116	1816	62.2	26	1300.0	62	212	7.3										

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

NORTH FORK RED RIVER NEAR HEADRICK, OKLAHOMA

YEAR	1		3		7		14		30		60		90		120		183		ANNUAL
1906	21.00	6	21.00	5	22.70	5	23.40	4	25.50	4	67.60	4	92.10	4	113.00	4	158.00	4	471.00
1907	60.00	8	65.00	8	75.00	8	100.00	8	298.00	8	369.00	8	515.00	8	592.00	8	624.00	8	655.00
1908	20.00	5	26.70	6	34.30	6	68.60	7	182.00	7	246.00	7	283.00	7	300.00	7	550.00	6	698.00
1939	0.00	1	0.00	1	0.00	1	0.00	1	0.64	3	7.47	3	26.60	3	34.80	3	37.40	3	279.00
1940	0.00	2	0.00	2	0.00	2	0.00	2	0.00	1	0.00	1	0.01	1	0.97	1	4.52	1	150.00
1941	0.00	3	0.00	3	0.00	3	0.00	3	0.15	2	6.63	2	21.90	2	19.20	2	35.10	2	48.80
1942	8.30	4	8.30	4	11.40	4	26.40	5	155.00	6	219.00	6	222.00	5	256.00	5	616.00	7	1150.00
1943	38.00	7	41.00	7	43.70	7	63.60	6	87.00	5	206.00	5	266.00	6	288.00	6	497.00	5	751.00

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

NORTH FORK RED RIVER NEAR HEADRICK, OKLAHOMA

YEAR	1		3		7		15		30		60		90		120		183		ANNUAL
1906	5500.0	7	3100.0	7	2260.0	7	1280.0	7	958.0	7	825.0	6	807.0	5	760.0	4	678.0	4	419.0
1907	15400.0	3	10500.0	3	5140.0	4	3450.0	3	2750.0	2	1850.0	2	1400.0	3	1160.0	3	920.0	3	733.0
1938	7050.0	6	4390.0	6	3310.0	6	1950.0	6	1360.0	5	1140.0	4	866.0	4	683.0	5	465.0	6	243.0
1939	10500.0	4	7900.0	4	4140.0	5	2220.0	5	1180.0	6	770.0	7	544.0	7	449.0	7	362.0	7	200.0
1940	1290.0	8	989.0	8	481.0	8	244.0	8	150.0	8	93.2	8	93.8	8	72.5	8	59.7	8	32.2
1941	23400.0	1	16500.0	1	11400.0	1	6650.0	1	6030.0	1	4200.0	1	3100.0	1	2380.0	1	1680.0	1	862.0
1942	17000.0	2	14900.0	2	8450.0	2	4280.0	2	2580.0	3	1840.0	3	1660.0	2	1290.0	2	1000.0	2	811.0
1943	8890.0	5	6770.0	5	5310.0	5	2860.0	4	1660.0	4	978.0	5	795.0	6	671.0	6	512.0	5	342.0

NORTH FORK RED RIVER NEAR HEADRICK, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34			
YEAR 1945																																						CFS_DAYS 101489.0
1946	24																																				25696.1	
1947																																					140456.8	
1948	4																																				38035.2	
1949																																					114673.5	
1950																																					131196.0	
1951																																					248519.6	
1952	62																																				244993.3	
1953	103																																				42525.4	
1954	6																																				50919.5	
1955	55																																				60223.5	
1956	39																																				104814.8	
1957	15																																				211578.3	
1958																																					34250.4	
1959																																					114215.2	
1960																																					152838.0	
1961																																					215195.0	
1962																																					145745.0	
1963	26																																				50998.4	
1964	45																																				25186.5	
1965																																					87861.8	
1966	29																																					

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## NORTH FORK RED RIVER NEAR HEADRICK, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1945	7.60 22	8.67 22	13.50 25	14.40 22	18.50 20	28.30 21	40.40 23	44.40 22	53.50 17	243.00 16
1946	0.30 16	0.37 16	0.61 15	1.52 15	7.57 18	10.00 14	13.40 10	16.10 8	20.70 6	238.00 15
1947	0.00 1	0.00 1	0.00 1	0.00 1	0.03 6	21.70 18	25.80 16	28.80 15	63.10 18	91.30 6
1948	0.00 2	0.00 2	0.20 12	0.22 10	0.58 9	6.78 12	9.54 7	13.00 7	21.30 7	517.00 27
1949	0.00 3	0.00 3	0.04 11	0.26 11	2.09 11	3.50 8	13.10 9	35.50 20	64.50 19	124.00 10
1950	18.60 24	18.70 29	19.60 29	20.80 27	25.40 23	33.10 23	33.70 20	35.40 19	41.10 13	287.00 17
1951	12.00 26	12.30 25	16.60 27	17.40 24	22.90 22	34.40 24	36.00 22	37.30 21	64.80 20	370.00 24
1952	1.40 19	2.03 19	2.77 19	5.64 20	14.80 21	23.10 20	25.10 15	24.90 13	45.10 15	671.00 30
1953	0.00 4	0.00 4	0.00 2	0.00 2	0.00 1	0.00 1	0.00 1	0.00 1	0.20 1	47.10 2
1954	0.00 5	0.00 5	0.00 3	0.01 4	0.29 7	4.94 9	6.19 6	12.40 6	90.50 21	161.00 12
1955	0.00 6	0.00 6	0.00 4	0.00 3	0.00 2	0.00 2	0.03 2	0.09 2	0.34 2	95.00 7
1956	0.50 17	0.57 17	0.66 16	2.70 16	3.39 13	18.00 17	24.10 14	25.70 14	307.00 28	318.00 20
1957	0.00 7	0.00 7	0.00 5	0.00 4	0.00 3	0.03 3	5.69 5	7.47 5	12.10 5	142.00 11
1958	2.80 20	2.93 20	3.51 20	3.91 18	6.48 17	11.90 15	27.80 17	29.70 16	43.80 14	596.00 28
1959	0.20 14	0.27 15	0.51 14	0.59 13	0.70 10	2.69 7	4.85 4	6.77 4	9.17 4	72.30 5
1960	5.20 21	3.40 21	8.07 21	17.40 25	37.30 27	50.10 25	211.00 30	299.00 30	362.00 30	604.00 29
1961	12.00 27	13.30 28	15.70 26	21.20 26	41.10 29	58.80 30	205.00 29	199.00 29	220.00 27	461.00 26
1962	40.40 30	40.00 30	42.00 30	45.00 30	48.40 30	58.20 29	71.00 27	81.60 26	166.00 26	342.00 21
1963	12.90 28	12.30 26	13.10 24	17.60 26	37.40 28	57.20 28	64.00 24	89.50 27	114.00 22	363.00 22
1964	0.00 8	0.00 8	0.00 6	0.00 5	3.61 14	6.31 11	15.80 12	22.10 11	29.30 8	108.00 8
1965	0.00 9	0.00 9	0.00 7	0.00 6	0.02 4	2.34 6	15.00 11	18.90 9	50.80 16	70.50 4
1966	0.20 15	0.23 14	0.26 13	0.67 14	3.79 15	9.92 13	74.00 28	123.00 28	320.00 29	374.00 25
1967	0.00 10	0.00 10	0.00 8	0.00 7	3.22 12	5.71 10	10.20 8	21.10 10	31.80 9	57.10 3
1968	0.00 11	0.10 13	1.05 17	5.24 19	9.44 19	17.30 16	20.10 13	24.50 12	32.70 10	114.00 9
1969	0.40 23	9.07 23	10.20 22	13.20 21	35.20 26	55.70 27	65.00 25	77.70 25	153.00 24	301.00 18
1970	11.60 25	13.30 27	19.40 28	22.60 29	29.20 24	33.00 22	54.80 21	34.60 18	36.90 12	512.00 19
1971	0.00 12	0.00 11	0.00 9	0.00 8	0.02 5	0.44 4	1.76 3	4.56 3	7.12 3	35.10 1
1972	0.00 13	0.00 12	0.00 10	0.30 12	0.35 8	0.87 5	32.50 19	54.30 23	136.00 23	176.00 13
1973	1.10 18	1.83 18	2.41 18	3.74 17	6.22 16	22.10 19	31.80 18	29.90 17	34.70 11	178.00 14
1974	4.40 24	10.40 24	11.80 23	15.10 23	33.10 25	52.40 26	65.60 26	67.40 24	159.00 25	363.00 23

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## NORTH FORK RED RIVER NEAR HEADRICK, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1945	5560.0 22	4370.0 20	5870.0 12	2190.0 14	1300.0 16	848.0 15	766.0 12	703.0 12	507.0 12	278.0 13
1946	2560.0 29	1570.0 24	841.0 29	627.0 27	437.0 27	255.0 28	182.0 26	153.0 27	119.0 27	70.4 27
1947	16300.0 5	10200.0 8	8620.0 2	7210.0 2	4660.0 3	2740.0 3	1910.0 3	1480.0 3	961.0 3	522.0 4
1948	5690.0 20	3890.0 22	2020.0 21	1070.0 23	564.0 23	379.0 24	293.0 24	224.0 25	183.0 25	104.0 25
1949	13500.0 4	9920.0 4	4600.0 10	2930.0 10	2360.0 7	1410.0 5	1000.0 4	767.0 10	573.0 11	314.0 10
1950	10600.0 12	8330.0 10	5170.0 8	3470.0 8	2450.0 6	1410.0 6	1120.0 4	934.0 4	676.0 5	359.0 9
1951	24000.0 2	21900.0 1	15200.0 1	8690.0 1	6700.0 1	3820.0 1	2600.0 1	1960.0 1	1310.0 1	681.0 1
1952	3140.0 26	2020.0 27	1030.0 27	528.0 29	311.0 29	269.0 27	187.0 27	146.0 28	105.0 29	68.3 29
1953	12900.0 10	5240.0 19	2330.0 20	1100.0 22	563.0 24	503.0 20	409.0 19	308.0 20	231.0 19	117.0 22
1954	12300.0 11	6930.0 11	3420.0 15	1760.0 16	1060.0 18	563.0 18	380.0 20	286.0 22	190.0 23	140.0 20
1955	7940.0 18	5720.0 16	3660.0 13	2450.0 12	1440.0 14	923.0 12	650.0 14	494.0 15	327.0 15	165.0 18
1956	25700.0 1	16000.0 2	7370.0 5	3490.0 7	1760.0 10	892.0 14	604.0 15	461.0 16	310.0 17	286.0 12
1957	16000.0 6	12100.0 5	7460.0 4	6550.0 3	5260.0 2	3270.0 2	2250.0 2	1720.0 2	1140.0 2	580.0 3
1958	5250.0 24	3320.0 24	1650.0 25	816.0 25	476.0 26	330.0 25	238.0 26	194.0 26	143.0 26	93.8 26
1959	10600.0 13	5300.0 16	3060.0 19	2120.0 15	1540.0 13	1290.0 9	1070.0 5	834.0 7	615.0 7	313.0 11
1960	8520.0 17	5650.0 17	3220.0 17	1810.0 17	1230.0 17	911.0 13	785.0 11	719.0 11	596.0 10	418.0 5
1961	19000.0 3	11800.0 6	6510.0 7	4330.0 5	2500.0 5	1360.0 7	1070.0 6	882.0 5	704.0 4	590.0 2
1962	10300.0 14	5970.0 15	4590.0 11	3610.0 6	2330.0 8	1320.0 8	947.0 10	627.0 9	611.0 8	399.0 6
1963	4270.0 25	3140.0 25	1920.0 22	1520.0 20	826.0 20	436.0 23	311.0 23	287.0 21	214.0 21	140.0 21
1964	3220.0 27	1960.0 28	1010.0 28	530.0 28	338.0 28	226.0 29	154.0 29	122.0 29	109.0 28	68.8 28
1965	14200.0 5	13400.0 3	6750.0 6	5240.0 9	1660.0 12	840.0 16	581.0 16	603.0 14	427.0 14	241.0 14
1966	17700.0 4	10700.0 7	5040.0 9	2480.0 11	1320.0 15	716.0 17	526.0 17	428.0 17	319.0 16	203.0 17
1967	5970.0 26	2420.0 26	1490.0 26	763.0 26	515.0 25	296.0 26	265.0 25	252.0 24	195.0 22	112.0 23
1968	9660.0 15	6750.0 12	3540.0 14	2340.0 13	1640.0 11	991.0 11	764.0 13	613.0 13	436.0 13	234.0 15
1969	15300.0 7	12300.0 4	7670.0 3	5180.0 4	2870.0 4	1550.0 4	1070.0 4	942.0 6	597.0 4	377.0 7
1970	1640.0 30	997.0 30	523.0 30	280.0 30	153.0 30	120.0 30	95.8 30	80.7 30	65.2 30	50.0 30
1971	5840.0 21	3940.0 21	1780.0 24	1180.0 21	762.0 21	458.0 22	323.0 22	327.0 19	215.0 20	111.0 24
1972	5510.0 23	3750.0 23	1810.0 23	980.0 24	560.0 22	491.0 21	347.0 21	264.0 23	188.0 24	162.0 19
1973	8650.0 16	6240.0 13	3330.0 16	1930.0 16	1770.0 9	1110.0 10	1030.0 8	832.0 8	642.0 6	366.0 8
1974	7490.0 19	6090.0 14	3170.0 18	1610.0 19	999.0 19	562.0 19	437.0 18	344.0 18	267.0 18	222.0 16



## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

NORTH FORK RED RIVER NEAR HEADRICK, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS
1945									3	2	5	2			1	4	4	27	41	76	47	23	15	17	53	17	9	6	4	5	4				101489.0
1946	24							4	5	1	1		1	2	2	28	34	69	82	53	22	14	16	11	6	3	2	2	3					25696.1	
1947								5	4	4	1	2	4	3	8	21	113	55	27	19	21	15	12	5	7	7	15	4	4	5	3	1		190456.8	
1948	4							1	9	1	2	4	5	14	11	15	32	38	94	45	31	7	18	13	6	5	6	1	1	1	2		38035.2		
1949	5							3	2	2	5	3	9	30	25	8	6	4	13	62	49	29	31	26	11	4	14	6	8	5	3	2		110673.5	
1950																																		131196.0	
1951																																		248519.6	
1952	62							5	7	4	3	7	3	9	4	2	4	26	141	32	19	11	8	5	3	2	3	1	4	1				24993.3	
1953	103							8	4	6	16	39	16	19	25	20	13	23	11	14	12	6	8	10	2	3	1	1	3				42523.4		
1954	6							36	8	8	3	8	3	9	52	45	65	31	20	16	15	7	8	5	5	3	3	2	1	2	3	1		50919.5	
1955	55							27	4	10	9	6	14	36	41	36	15	18	15	13	15	8	9	6	3	6	4	1	8	3	1	2		60223.5	
1956	39							1	5	3	2	1	1	2	15	11	11	63	60	86	25	10	7	4	3	3	1	5	2	3	1	2	1	1	104814.8
1957	15																																	211578.3	
1958																																			34250.4
1959																																			114215.2
1960																																			152438.0
1961																																			215195.0
1962																																			145745.0
1963	28							1																											50998.4
1964	45							10	9	5	5	3	2	6	3	33	34	49	60	31	24	15	7	10	3	2	5	3	1	1				25186.5	
1965								1	11	4	2	5	4	10	13	7	11	16	75	99	33	16	13	10	6	8	9	5	1	2	1	3		87861.8	
1966	29																																		74051.0
1967	4							1	1	1	1	3	4	4	3	10	18	50	140	27	26	16	14	13	10	7	5	4	3					40768.5	
1968																																			85689.0
1969																																			137464.0
1970	52	1		1	2	2	5	4	6	2		3	2	3	6	6	12	33	160	42	8	4	2	3	1	3	1	1						18249.0	
1971	19			1		9	4	9	18	22	16	22	30	39	53	20	25	16	12	9	9	5	6	7	5	2	4	1	2					40613.0	

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	490	9861	100.0	9	0.50	90	9098	92.3	18	30.0	1347	5344	54.2	27	1600	121	350	3.5
1	0.01	1	9371	95.0	10	0.80	119	9008	91.3	19	46.0	1013	3997	40.5	28	2600	105	229	2.3
2	0.02	0	9370	95.0	11	1.30	96	8889	90.1	20	72.0	764	2984	30.3	29	4000	59	124	1.2
3	0.03	1	9370	95.0	12	2.00	209	8793	89.2	21	110.0	554	2220	22.5	30	6300	31	65	.6
4	0.05	3	9369	95.0	13	3.20	309	8584	87.0	22	180.0	414	1666	16.9	31	9800	23	34	.3
5	0.08	2	9366	95.0	14	5.00	372	8275	83.9	23	280.0	350	1252	12.7	32	15000	9	11	.1
6	0.10	112	9364	95.0	15	7.80	462	7903	80.1	24	430.0	231	902	9.1	33	24000	2	2	.0
7	0.20	74	9252	93.8	16	12.00	739	7441	75.5	25	670.0	212	671	6.8	34				
8	0.30	80	9178	93.1	17	19.00	1358	6702	68.0	26	1100.0	109	459	4.7					

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## NORTH FORK RED RIVER NEAR HEADRICK, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1945	7.60 20	8.67 20	13.30 22	14.40 20	18.50 18	28.30 19	40.40 21	44.40 21	53.50 16	243.00 14
1946	0.30 15	0.37 15	0.61 14	1.52 14	7.57 16	10.00 13	13.40 10	16.10 8	20.70 6	238.00 13
1947	0.00 1	0.00 1	0.00 1	0.00 1	0.03 6	21.70 17	25.80 16	28.80 15	63.10 17	91.30 6
1948	0.00 2	0.00 2	0.20 11	0.22 10	0.58 8	6.78 11	9.54 7	13.00 7	21.30 7	517.00 24
1949	0.00 3	0.00 3	0.04 10	0.26 11	2.09 10	3.50 7	13.10 9	35.50 19	64.50 18	124.00 10
1950	18.00 26	18.70 26	19.60 26	20.80 24	25.40 21	33.10 21	33.70 18	35.40 18	41.10 12	287.00 15
1951	12.00 23	12.30 22	16.60 24	17.40 21	22.90 20	34.40 22	36.00 20	37.30 20	64.80 19	370.00 21
1952	1.90 17	2.03 17	2.77 17	5.64 18	19.80 19	23.10 18	25.10 15	24.90 13	45.10 14	671.00 27
1953	0.00 4	0.00 4	0.00 2	0.00 2	0.00 1	0.00 1	0.00 1	0.00 1	0.20 1	47.10 2
1954	0.00 5	0.00 5	0.00 3	0.01 9	0.29 7	4.94 8	6.19 6	12.40 6	90.50 20	161.00 12
1955	0.00 6	0.00 6	0.00 4	0.00 3	0.00 2	0.00 2	0.03 2	0.09 2	0.34 2	95.00 7
1956	0.50 16	0.57 16	0.66 15	2.70 15	3.39 12	18.00 16	24.10 14	25.70 14	507.00 25	318.00 18
1957	0.00 7	0.00 7	0.00 5	0.00 4	0.00 3	0.03 3	5.69 5	7.47 5	12.10 5	142.00 11
1958	2.90 18	2.93 18	3.31 18	3.91 16	6.48 15	11.90 14	27.80 17	29.70 16	43.80 13	596.00 25
1959	0.20 13	0.27 14	0.31 13	0.39 12	0.70 9	2.69 6	4.85 4	6.77 4	9.17 4	72.30 5
1960	5.20 19	3.90 19	8.07 19	17.40 22	37.30 24	50.10 23	211.00 27	299.00 27	362.00 27	604.00 26
1961	12.00 24	13.30 25	15.70 23	21.20 25	41.10 26	58.80 27	205.00 26	199.00 26	220.00 24	461.00 23
1962	40.00 27	40.00 27	42.00 27	45.60 27	48.40 27	58.20 26	71.00 24	81.60 23	186.00 23	342.00 19
1963	12.00 25	12.30 23	13.10 21	17.60 23	34.00 25	57.20 25	64.00 22	89.50 24	114.00 21	363.00 20
1964	0.00 8	0.00 8	0.00 6	0.00 5	3.61 13	6.31 10	15.80 12	22.10 11	29.30 8	108.00 8
1965	0.00 9	0.00 9	0.00 7	0.00 6	0.02 4	2.34 5	15.00 11	18.90 9	50.80 15	70.50 4
1966	0.20 14	0.23 13	0.26 12	0.67 13	3.79 14	9.92 12	74.00 25	123.00 25	320.00 26	374.00 22
1967	0.00 10	0.00 10	0.00 8	0.00 7	3.22 11	5.71 9	10.20 8	21.10 10	31.80 9	57.10 3
1968	0.00 11	0.10 12	1.05 16	5.24 17	9.44 17	17.50 15	20.10 13	24.50 12	32.70 10	114.00 9
1969	8.40 21	9.07 21	10.20 20	13.20 19	35.20 23	55.70 24	65.00 23	77.70 22	153.00 22	301.00 16
1970	11.00 22	15.50 24	19.40 25	22.60 26	29.20 22	33.00 20	34.80 19	34.60 17	36.90 11	312.00 17
1971	0.00 12	0.00 11	0.00 9	0.00 8	0.02 5	0.44 4	1.76 3	4.56 3	7.12 3	35.10 1

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## NORTH FORK RED RIVER NEAR HEADRICK, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1945	5560.0 20	4370.0 18	3870.0 12	2190.0 14	1300.0 15	848.0 14	766.0 11	703.0 11	507.0 11	278.0 12
1946	2560.0 26	1570.0 26	841.0 26	627.0 24	437.0 24	255.0 25	182.0 25	153.0 24	119.0 24	70.4 24
1947	16300.0 5	10200.0 8	8820.0 2	7210.0 2	4660.0 3	2740.0 3	1910.0 3	1480.0 3	981.0 3	522.0 4
1948	5860.0 18	3990.0 20	2020.0 19	1070.0 21	564.0 20	379.0 21	293.0 21	224.0 22	183.0 22	104.0 22
1949	13500.0 9	9920.0 9	4600.0 10	2930.0 10	2380.0 7	1410.0 5	1000.0 8	767.0 9	573.0 10	314.0 9
1950	10800.0 12	8330.0 10	5170.0 8	3470.0 8	2450.0 6	1410.0 6	1120.0 4	934.0 4	676.0 5	359.0 8
1951	24000.0 2	21900.0 1	15200.0 1	8690.0 1	6700.0 1	5820.0 1	2660.0 1	1960.0 1	1310.0 1	681.0 1
1952	3140.0 25	2120.0 24	1030.0 24	524.0 26	311.0 26	269.0 24	187.0 24	146.0 25	105.0 26	68.3 26
1953	12900.0 10	5290.0 17	2330.0 18	1100.0 20	563.0 21	503.0 18	409.0 17	308.0 18	231.0 17	117.0 19
1954	12300.0 11	6930.0 11	3420.0 15	1780.0 17	1060.0 17	563.0 17	380.0 18	286.0 20	190.0 21	140.0 18
1955	7940.0 17	5720.0 14	3660.0 13	2450.0 12	1440.0 13	923.0 11	650.0 13	494.0 14	327.0 14	165.0 16
1956	25700.0 1	18000.0 2	7370.0 5	3490.0 7	1760.0 9	892.0 13	604.0 14	461.0 15	310.0 16	286.0 11
1957	16000.0 6	12100.0 5	7460.0 4	6550.0 3	5280.0 2	3270.0 2	2250.0 2	1720.0 2	1140.0 2	580.0 3
1958	5250.0 21	3320.0 21	1650.0 22	810.0 22	476.0 23	330.0 22	238.0 23	194.0 23	143.0 23	93.8 23
1959	10600.0 13	5300.0 16	3060.0 17	2120.0 15	1590.0 12	1290.0 9	1070.0 5	834.0 7	615.0 6	313.0 10
1960	8520.0 16	5650.0 15	3220.0 16	1910.0 16	1230.0 16	911.0 12	785.0 10	719.0 10	596.0 9	418.0 5
1961	19000.0 3	11800.0 6	6510.0 7	4330.0 5	2500.0 5	1360.0 7	1070.0 6	882.0 5	704.0 4	590.0 2
1962	10300.0 14	5970.0 13	4590.0 11	3610.0 6	2330.0 8	1320.0 8	947.0 9	827.0 8	611.0 7	399.0 6
1963	4270.0 22	3140.0 22	1920.0 20	1520.0 18	826.0 18	436.0 20	311.0 20	287.0 19	214.0 19	140.0 17
1964	3220.0 24	1960.0 25	1010.0 25	530.0 25	338.0 25	226.0 26	154.0 26	122.0 26	109.0 25	68.8 25
1965	14200.0 8	13400.0 3	6750.0 6	3240.0 9	1680.0 11	840.0 15	581.0 15	603.0 13	427.0 13	241.0 13
1966	17700.0 4	10700.0 7	5040.0 9	2980.0 11	1320.0 14	716.0 16	526.0 16	428.0 16	319.0 15	203.0 15
1967	3470.0 23	2420.0 23	1490.0 23	763.0 23	515.0 22	296.0 23	285.0 22	252.0 21	195.0 20	112.0 20
1968	9060.0 15	6750.0 12	3540.0 14	2390.0 13	1690.0 10	991.0 10	764.0 12	613.0 12	436.0 12	234.0 14
1969	15300.0 7	12300.0 4	7670.0 3	5180.0 4	2870.0 4	1550.0 4	1070.0 7	842.0 6	597.0 8	377.0 7
1970	1640.0 27	997.0 27	523.0 27	280.0 27	153.0 27	120.0 27	95.8 27	80.7 27	65.2 27	50.0 27
1971	5840.0 19	3940.0 19	1780.0 21	1180.0 19	762.0 19	458.0 19	323.0 19	327.0 17	215.0 18	111.0 21

## 07305500 WEST OTTER CREEK AT SNYDER LAKE, NEAR MOUNTAIN PARK, OKLA.

LOCATION.--Lat 34°43'55", long 98°59'12", in NE 1/4 SE 1/4 sec.16, T.3 N., R.17 W., Kiowa County, on left bank 700 ft (213.4 m) downstream from Snyder Dam on West Otter Creek, 0.7 mi (1.1 km) upstream from small tributary, 3.0 mi (4.8 km) northwest of Mountain Park, and at mile 26.0 (41.8 km).

DRAINAGE AREA.--132 mi<sup>2</sup> (342 km<sup>2</sup>).

PERIOD OF RECORD.--April 1903 to March 1908, October 1951 to September 1971, July 1972 to September 1974.

AVERAGE DISCHARGE.--25 years (1904-7, 1952-71, 1973-1974), 23.9 ft<sup>3</sup>/s (0.677 m<sup>3</sup>/s).

REMARKS.--The city of Snyder diverted about 130 acre-ft (160,000 m<sup>3</sup>) annually prior to October 1958 and none thereafter.

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

## WEST OTTER CREEK AT SNYDER LAKE NEAR MT. PARK, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34			
YEAR	NUMBER OF DAYS IN CLASS																																			CFS_DAYS		
1904	49							23	2	23	22	26	55	58	88	5	3	1			3	1	1	3	2				1							2228.0		
1905	100									2	36	9	29	25	30	21	16	8	26	20	11	4	6	5	1	2	4	3	3		3	1				16957.7		
1906											12	32		25	98	35	40	35	23	18	10	6	10	1	3	3	2	2	4	4	2					17111.5		
1907	7												33				41	74	74	49	31	13	7	9	5	8	3	6	2	1		2				21656.0		
1952	345																																				2691.2	
1953	351												1	3	1	1	2	1	2	1	1	1	2											1		6845.5		
1954	303												2	2	1	1	9	3	4	7	2	4	4	2	2	1	2	4	1	2	2					7925.4		
1955	316												1	1	2	2	1	3	6	2	3	3	6	1	1	2	3	4	1	1	3		1			7799.7		
1956	335												5	2			2	2		2	6	2	1	2	1										4728.4			
1957	274												1				1	3		2	4	2	8	14	10	10	3	9	2		4	2	6	4	2	1	21880.9	
1958	271												4	8	5	12	12	3	12	13	3	8	3	4	1	1	1	3		1						2185.1		
1959	278																																				15115.9	
1960	166												1				8	18		2	16	4	36	46	23	13	12	4	4	5		2	1	1	3	2	1	6842.9
1961	222												2	3	14	12		7	15	11	14	14	5	13	6	7	4	1	3	4	1	1	2	1	2	1	10371.0	
1962	205												3	11	16	2	7	19	18	24	11	5	15	1	4	4	2	1	5	5	1	4	1	1			7427.1	
1963	328												3	3	2	3	4	2	3	2	3	2	2	1	1											1329.1		
1964	343												1	1					3	1	3	2	1	1	3	1	1	2	1	2						1158.1		
1965	275													6	5		3	4	4	10	8	7	9	8	4	5	1	2	3	2	3	1	3			8927.2		
1966	254																																				8513.5	
1967	365																																				0.0	
1968	287												2				5	2		3	6	3	5	7	7	5	5	5	1	4	2	2		1	1	7673.7		
1969	278																9	6	1	3	6	4	9	9	5	3	6	8	1	4		1				3272.5		
1970	353																																				111.2	
1971	305																																				6368.1	
1973	92																																				17205.9	
1974	151	2	3	1	2	7	21	7	24	41	21	24	6	8	4																						12218.1	

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	6253	9496	100.0	9	0.50	221	3011	31.7	18	18.0	182	818	8.6	27	660	34	85	.8
1	0.01	2	3243	34.2	10	0.80	112	2790	29.4	19	27.0	129	636	6.7	28	980	25	51	.5
2	0.02	5	3241	34.1	11	1.10	226	2678	28.2	20	41.0	104	507	5.3	29	1500	15	26	.2
3	0.03	1	3236	34.1	12	1.70	303	2452	25.8	21	61.0	68	403	4.2	30	2200	7	11	.1
4	0.04	5	3235	34.1	13	2.50	325	2149	22.6	22	91.0	50	335	3.5	31	3200	2	4	.0
5	0.07	8	3230	34.0	14	3.80	246	1824	19.2	23	130.0	53	285	3.0	32	4800	2	2	.0
6	0.10	58	3222	33.9	15	5.60	290	1576	16.6	24	200.0	55	232	2.4	33				
7	0.20	20	3164	33.3	16	8.30	221	1288	13.6	25	300.0	41	177	1.9	34				
8	0.30	133	3144	33.1	17	12.00	249	1067	11.2	26	440.0	51	136	1.4					

## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## WEST OTTER CREEK AT SNYDER LAKE NEAR MT. PARK, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1904	0.00 1	0.00 1	0.00 1	0.34 22	0.37 22	0.40 20	0.45 18	0.58 18	1.22 13	16.00 13
1905	0.00 2	0.00 2	0.00 2	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.21 10	6.22 7
1906	0.30 24	0.40 24	0.49 24	0.54 23	0.72 23	0.87 23	2.35 21	2.39 21	2.95 16	47.00 22
1907	2.50 25	2.50 25	4.00 25	5.29 25	6.43 25	16.40 25	27.20 25	32.00 25	35.30 25	62.90 25
1908	0.00 3	0.00 3	0.00 3	0.71 24	2.40 24	3.72 24	4.40 23	4.81 22	6.69 18	45.20 21
1953	0.00 4	0.00 4	0.00 4	0.00 2	0.00 2	0.00 2	0.00 2	0.00 2	0.00 1	7.37 8
1954	0.00 5	0.00 5	0.00 5	0.00 3	0.00 3	0.00 3	0.00 3	0.31 16	17.80 21	27.70 17
1955	0.00 6	0.00 6	0.00 6	0.00 4	0.00 4	0.00 4	0.00 4	0.00 3	0.00 2	12.80 11
1956	0.00 7	0.00 7	0.00 7	0.00 5	0.00 5	0.00 5	0.00 5	0.05 14	24.10 22	33.30 18
1957	0.00 8	0.00 8	0.00 8	0.00 6	0.00 6	0.00 6	0.00 6	0.00 4	0.00 3	0.89 4
1958	0.00 9	0.00 9	0.00 9	0.00 7	0.00 7	0.00 7	0.00 7	0.00 5	0.46 11	60.30 24
1959	0.00 10	0.00 10	0.00 10	0.00 8	0.00 8	0.00 8	0.00 8	0.00 6	0.00 4	5.66 6
1960	0.00 11	0.00 11	0.00 11	0.00 9	0.00 9	0.24 18	15.70 24	17.70 24	34.60 24	58.60 23
1961	0.00 12	0.00 12	0.00 12	0.00 10	0.00 10	0.00 9	0.07 17	0.28 15	2.38 15	8.51 10
1962	0.00 13	0.00 13	0.00 13	0.00 11	0.00 11	0.36 19	0.59 19	0.90 20	8.62 20	25.60 16
1963	0.00 14	0.00 14	0.00 14	0.00 12	0.00 12	0.00 10	0.00 9	0.00 7	2.02 14	17.00 14
1964	0.00 15	0.00 15	0.00 15	0.00 13	0.00 13	0.00 11	0.00 10	0.00 8	0.00 5	2.85 5
1965	0.00 16	0.00 16	0.00 16	0.00 14	0.00 14	0.00 12	0.00 11	0.00 9	5.86 17	13.70 12
1966	0.00 17	0.00 17	0.00 17	0.00 15	0.00 15	0.54 22	2.48 22	12.70 23	26.50 23	37.00 20
1967	0.00 18	0.00 18	0.00 18	0.00 16	0.00 16	0.00 13	0.00 12	0.00 10	0.00 6	0.00 1
1968	0.00 19	0.00 19	0.00 19	0.00 17	0.00 17	0.00 14	0.00 13	0.00 11	0.00 7	0.00 2
1969	0.00 20	0.00 20	0.00 20	0.00 18	0.00 18	0.00 15	0.00 14	0.41 17	0.73 12	21.50 15
1970	0.00 21	0.00 21	0.00 21	0.00 19	0.00 19	0.00 16	0.00 15	0.00 12	0.00 8	8.50 9
1971	0.00 22	0.00 22	0.00 22	0.00 20	0.00 20	0.00 17	0.00 16	0.00 13	0.00 9	0.30 3
1974	0.00 23	0.00 23	0.00 23	0.00 21	0.00 21	0.42 21	0.62 20	0.65 19	8.48 19	36.10 19

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## WEST OTTER CREEK AT SNYDER LAKE NEAR MT. PARK, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1904	780.0 21	320.0 22	139.0 22	72.2 22	43.4 22	24.4 22	19.9 22	15.4 22	10.7 22	6.1 21
1905	2910.0 4	1200.0 9	739.0 6	480.0 4	379.0 3	251.0 2	179.0 2	137.0 2	92.2 3	46.5 5
1906	1600.0 13	1130.0 10	601.0 10	306.0 10	186.0 10	120.0 7	119.0 5	91.9 5	90.2 4	46.9 4
1907	2850.0 5	1850.0 3	913.0 3	604.0 1	389.0 2	236.0 3	163.0 3	126.0 3	93.3 2	59.3 2
1952	861.0 16	454.0 19	291.0 19	172.0 19	89.7 19	44.9 20	29.9 20	22.4 20	14.7 20	7.4 20
1953	6420.0 1	2260.0 1	973.0 2	454.0 5	227.0 5	114.0 8	76.1 10	57.0 11	37.4 12	18.8 15
1954	1380.0 14	637.0 17	376.0 16	245.0 14	155.0 13	77.8 15	51.9 16	38.9 17	28.1 16	21.7 11
1955	2410.0 8	1250.0 8	612.0 9	315.0 9	181.0 11	127.0 6	84.9 8	63.7 9	42.6 10	21.4 12
1956	2390.0 9	1380.0 5	619.0 8	290.0 11	145.0 15	72.6 16	48.4 17	36.3 18	24.1 18	12.9 18
1957	2720.0 6	1280.0 6	697.0 7	541.0 2	444.0 1	313.0 1	212.0 1	179.0 1	120.0 1	59.9 1
1958	558.0 22	340.0 21	169.0 21	79.7 21	57.8 21	29.0 21	22.5 21	17.7 21	11.9 21	6.0 22
1959	3400.0 3	1250.0 7	1070.0 1	503.0 3	253.0 4	180.0 4	137.0 4	104.0 4	82.6 5	41.4 6
1960	1150.0 16	916.0 12	472.0 13	223.0 16	112.0 18	56.0 18	54.3 15	44.2 15	34.6 14	18.7 16
1961	2530.0 7	1390.0 4	751.0 5	383.0 8	205.0 7	113.0 9	75.9 11	61.9 10	42.7 9	28.4 8
1962	1100.0 17	576.0 18	471.0 14	274.0 12	149.0 14	84.6 14	61.7 14	46.8 14	32.0 15	20.3 14
1963	337.0 23	158.0 23	70.4 23	32.8 23	22.2 24	16.0 23	10.7 23	8.0 23	5.2 24	3.6 23
1964	241.0 24	116.0 24	53.2 24	24.8 24	24.4 23	12.2 24	8.1 24	6.8 24	5.9 23	3.2 24
1965	1260.0 15	1000.0 11	460.0 15	216.0 17	131.0 16	65.5 17	43.7 18	39.5 16	27.3 17	24.5 9
1966	4830.0 2	1920.0 2	836.0 4	394.0 7	198.0 8	94.3 11	91.4 7	70.6 7	46.5 8	23.3 10
1967	0.0 26	0.0 26	0.0 26	0.0 26	0.0 26	0.0 26	0.0 26	0.0 26	0.0 26	0.0 26
1968	2180.0 10	840.0 14	374.0 17	211.0 18	124.0 17	90.8 13	60.6 9	63.9 8	41.9 11	21.0 13
1969	793.0 20	389.0 20	193.0 20	114.0 20	59.2 20	48.0 19	32.3 19	25.0 19	17.1 19	9.0 19
1970	25.0 25	17.3 25	8.2 25	4.6 25	3.7 25	1.9 25	1.2 25	0.9 25	0.6 25	0.3 25
1971	1630.0 11	877.0 16	329.0 18	243.0 15	166.0 12	96.7 12	64.5 13	53.1 12	34.8 13	17.4 17
1973	1630.0 12	896.0 13	553.0 12	260.0 13	214.0 6	128.0 5	117.0 6	88.0 6	78.6 6	47.1 3
1974	847.0 19	741.0 15	545.0 11	395.0 6	197.0 9	105.0 10	69.9 12	52.4 13	58.3 7	33.5 7

## STATISTICS OF ANNUAL DISCHARGE FOR WATER YEARS, 1904-07, 1952-66, 1968-74

Units of annual Discharge	Mean	Standard Deviation	Coefficient of Variation	Skew Coefficient	First Order Serial Correlation Coefficient
CFS	23.9	17.5	0.73	0.69	0.46
LOGS of CFS	1.201	0.508		-1.760	0.083

## RED RIVER BASIN

291

07306500 OTTER CREEK AT MOUNTAIN PARK, OKLA.

LOCATION.--Lat 34°41'42", long 98°59'02", in NW 1/4 NW 1/4 sec.34, T.3 N., R.17 W., on downstream side of left abutment of county highway 500 ft (152 m) up-stream from Horse Creek, 1.5 mi (2.4 km) west of Mountain Park, 4.0 mi (6.4 km) downstream from Lake Snyder, and 23.0 mi (37.0 km) upstream from mouth.

DRAINAGE AREA.--164 mi<sup>2</sup> (425 km<sup>2</sup>).

PERIOD OF RECORD.--March 1946 to September 1951.

AVERAGE DISCHARGE.--5 years (1947-1951), 29.1 ft<sup>3</sup>/s (0.824 m<sup>3</sup>/s).

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

OTTER CREEK AT MOUNTAIN PARK, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS	
1947	129	54	44	6	13	15	8	8	6	7	7	10	9	8	4	7	4	2	2	5	1	3	2	3	1	1	1					1	1	1	1	13727.3
1948	177	2	15	8	7	25	36	16	31	8	7	9	3	6	1	5				1	3			1	1			1	1					1	4636.8	
1949	272	10	5	3	2	4	3	2	1	2	1	1	5	5	4	8	4	6	5	3	3	3	1	1		1	3	3	3	1			2	14437.3		
1950	198	39	17	8	8	24	4	2	9	5	5	9	7	3		5	3	4	3	1	3			1	1	1	1	1		2	1	2		7951.8		
1951	79	55	72	44	25	19	10	4	3	3	2	4	5	5	1	7	6	2	1	2	2	1	1	2		1	2	1	1	2	2		1	12421.7		

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	855	1826	100.0	9	1.70	23	304	16.6	18	29.0	11	98	5.4	27	500	5	29	1.5					
1	0.10	160	971	53.2	10	2.50	22	281	15.4	19	40.0	14	87	4.8	28	690	8	24	1.3					
2	0.20	153	811	44.4	11	3.20	33	259	14.2	20	55.0	9	73	4.0	29	950	4	16	.8					
3	0.30	69	658	36.0	12	4.40	27	226	12.4	21	76.0	7	64	3.5	30	1300	5	12	.6					
4	0.40	55	589	32.3	13	6.10	27	199	10.9	22	100.0	6	57	3.1	31	1800	2	7	.3					
5	0.50	87	534	29.2	14	8.30	10	172	9.4	23	140.0	8	51	2.8	32	2400	4	5	.2					
6	0.70	61	447	24.5	15	11.00	52	162	8.9	24	200.0	2	43	2.4	33	3400	1	1	.0					
7	0.90	32	386	21.1	16	16.00	17	130	7.1	25	270.0	5	41	2.2	34									
8	1.20	50	354	19.4	17	21.00	15	113	6.2	26	370.0	7	36	2.0										

## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

OTTER CREEK AT MOUNTAIN PARK, OKLAHOMA

YEAR	1		3		7		14		30		60		90		120		183		ANNUAL	
1947	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.10	4	0.26	5	0.47	5	0.65	4	10.40	1
1948	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	1	0.02	2	0.04	2	0.88	5	42.60	5
1949	0.00	3	0.00	3	0.00	3	0.00	3	0.00	3	0.00	2	0.00	1	0.00	1	0.03	1	10.90	2
1950	0.00	4	0.00	4	0.00	4	0.00	4	0.00	4	0.01	3	0.03	3	0.08	3	0.12	2	36.00	4
1951	0.00	5	0.00	5	0.00	5	0.00	5	0.11	5	0.15	5	0.18	4	0.23	4	0.27	3	21.90	3

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

OTTER CREEK AT MOUNTAIN PARK, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL										
1947	3800.0	1	1590.0	2	1070.0	1	537.0	2	374.0	2	224.0	1	151.0	1	113.0	1	74.5	2	37.6	2
1948	1920.0	4	818.0	5	363.0	5	172.0	5	86.2	5	43.3	5	29.1	5	28.5	5	19.0	5	12.7	5
1949	3250.0	3	1440.0	3	694.0	3	574.0	1	450.0	1	218.0	2	145.0	2	109.0	2	78.8	1	39.6	1
1950	1780.0	5	1040.0	4	665.0	4	338.0	4	245.0	4	130.0	4	87.5	4	65.8	4	43.3	4	21.8	4
1951	3350.0	2	1820.0	1	978.0	2	461.0	3	328.0	3	204.0	3	137.0	3	103.0	3	67.6	3	34.0	3



## 07308200 PEASE RIVER NEAR VERNON, TEX.

LOCATION.--Lat 34°10'44", long 99°16'40", Wilbarger County, near left bank on downstream side of bridge on U.S. Highway 283, 1.9 mi (3.1 km) north of Vernon, and 10 mi (16 km) upstream from mouth.

DRAINAGE AREA.--3,488 mi<sup>2</sup> (9,034 km<sup>2</sup>), of which 559 mi<sup>2</sup> (1,448 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD.--December 1959 to September 1974.

AVERAGE DISCHARGE.--14 years (1961-74), 103 ft<sup>3</sup>/s (2.92 m<sup>3</sup>/s).

REMARKS.--Some regulation by SCS flood-retarding structures.

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

## PEASE RIVER NEAR VERNON, TEXAS

CLASS 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34

YEAR	NUMBER OF DAYS IN CLASS																																	CFS_DAYS
1961	12					5	2	1	8	3	12	11	12	9	11	17	32	36	51	43	36	19	15	5	6	6	5	4			1	1	61402.3	
1962	45					13	3	1	5	10	31	35	32	35	35	28	13	7	14	5	10	3	7	2	4	5	9	6	2		1	1	52097.3	
1963	29					18	8	3	8	7	11	26	19	31	36	48	41	15	14	12	6	9	4	4	6	1	3	1		1	1	51435.1		
1964	165					29	30	14	21	11	13	5	5	9	2	3	7	5	8	1	6	5	3	3	1							1	1	4610.5
1965	176					53	5	3	14	5	12	6	12	3	9	9	5	8	6	4	6	7	5	4	3	2	3	1				2	2	35430.9
1966	29	2		1	2	1	5	2	2	5	1	4	4	10	6	55	30	54	31	58	41	17	11	7	11	6	4	2	1	2		1	47174.3	
1967	6	2	2	21	12	11	13	10	5	16	5	40	27	27	19	26	18	15	15	12	12	19	7	9	4	4	2	1	1	1	1	1	23654.5	
1968	17	15	2	6	2	3	11	5	1	9	4	8	10	26	22	14	14	36	29	46	19	18	11	12	6	2	3	2	3			34756.2		
1969	34	2	2	2	1	3	1	3	3	6	12	18	16	26	27	55	40	31	22	21	8	7	2	5	4	7	4	1	2			19219.3		
1970	76				1	2			1	1	2	3	5	20	23	34	61	36	38	16	13	17	7	4	2	3						14732.3		
1971	285			1	1	2	4			1	1	1	1	4	2	5	7	7	7	3	7	4	3	8	2	3	5			1		27450.1		
1972	16	5	5	4	2	2	3	4	3	5	4	5	11	6	17	22	40	54	31	40	17	24	11	12	7	5	2	2	4	3		39866.1		
1973	5		1			3	2			1	2	2	5	6	17	7	9	23	60	45	27	42	27	32	11	7	15	5	3	2	2	1	76496.4	
1974	61		2		1	1	3		2	4	1	3	5	10	10	4	85	27	25	31	30	12	9	7	8	5	6	3	6	1	1	2	55524.2	

CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT
0	0.00	978	5113	100.0	9	0.40	103	5736	73.1	18	21.00	327	1752	34.3	27	1000	38	104	2.0	27	1000	38	104	2.0
1	0.01	26	4135	80.9	10	0.70	66	3633	71.1	19	32.00	371	1425	27.9	28	1500	38	104	1.3	28	1500	38	104	1.3
2	0.02	14	4109	80.4	11	1.00	162	3567	69.8	20	50.00	242	1054	20.6	29	2400	12	30	.5	29	2400	12	30	.5
3	0.03	35	4095	80.1	12	1.60	167	3405	66.6	21	76.00	219	812	15.9	30	3600	8	18	.3	30	3600	8	18	.3
4	0.05	22	4060	79.4	13	2.50	197	3238	63.3	22	120.00	145	593	11.6	31	5600	5	10	.1	31	5600	5	10	.1
5	0.07	26	4038	79.0	14	3.60	225	3041	59.5	23	180.00	129	448	8.8	32	8600	3	5	.0	32	8600	3	5	.0
6	0.10	163	4612	78.5	15	5.80	283	2816	55.1	24	280.00	78	319	6.2	33	13000	2	2	.0	33	13000	2	2	.0
7	0.20	74	3849	75.3	16	8.90	377	2533	49.5	25	480.00	74	241	4.7	34									
8	0.30	39	3775	73.8	17	14.00	404	2156	42.2	26	650.00	61	167	3.3										

## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## PEASE RIVER NEAR VERNON, TEXAS

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1962	0.00 1	0.00 1	0.00 1	0.00 1	0.05 6	2.24 9	3.56 5	4.58 5	6.72 4	52.00 3
1963	0.00 2	0.00 2	0.00 2	0.01 9	0.47 11	8.14 11	8.60 9	13.90 6	30.60 8	155.00 11
1964	0.00 3	0.00 3	0.00 3	0.00 2	0.00 1	0.25 4	5.57 6	4.26 4	9.70 6	73.70 5
1965	0.00 4	0.00 4	0.00 4	0.00 3	0.00 2	0.10 2	0.11 2	0.15 2	0.92 5	12.10 1
1966	0.00 5	0.00 5	0.00 5	0.00 4	0.00 3	0.29 5	17.60 12	25.40 12	139.00 13	162.00 12
1967	0.00 6	0.00 6	0.00 6	0.04 11	0.05 7	0.10 3	0.32 3	0.63 3	3.06 2	61.40 4
1968	0.00 7	0.00 7	0.00 7	0.01 10	0.05 8	1.17 6	3.46 4	10.10 7	21.60 7	80.40 7
1969	0.00 8	0.00 8	0.00 8	0.06 12	0.54 9	4.41 10	7.86 7	7.24 6	8.68 3	83.50 8
1970	0.00 9	0.00 9	0.00 9	0.00 5	0.05 10	1.81 8	11.80 10	17.70 11	55.90 11	75.20 6
1971	0.00 10	0.00 10	0.00 10	0.00 6	0.00 4	0.00 1	0.00 1	0.00 1	0.06 1	12.50 2
1972	0.00 11	0.00 11	0.00 11	0.00 7	0.00 5	1.40 7	8.37 8	14.20 9	33.60 9	91.80 9
1973	0.00 12	0.00 12	0.00 12	0.00 8	7.07 13	24.90 13	53.90 13	57.10 13	71.20 12	146.00 10
1974	0.00 13	0.00 13	0.00 13	1.37 15	3.88 12	11.40 12	11.80 11	17.00 10	40.60 10	177.00 13

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## PEASE RIVER NEAR VERNON, TEXAS

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL										
1961	13200.0	2	7540.0	2	4120.0	1	2130.0	1	1100.0	1	566.0	2	401.0	2	312.0	3	245.0	4	169.0	2
1962	9760.0	4	4480.0	4	2880.0	3	1650.0	3	950.0	2	631.0	1	436.0	1	394.0	1	276.0	2	143.0	4
1963	6740.0	6	3600.0	6	2160.0	6	1120.0	7	569.0	7	320.0	7	229.0	7	189.0	10	143.0	9	86.1	9
1964	625.0	14	314.0	14	155.0	14	80.5	14	58.5	14	29.3	14	20.0	14	19.5	14	16.6	14	12.6	14
1965	11300.0	3	7820.0	1	3750.0	2	1790.0	2	895.0	3	448.0	5	306.0	4	247.0	5	185.0	5	97.1	7
1966	16100.0	1	6210.0	3	2760.0	4	1330.0	5	693.0	6	370.0	6	262.0	6	203.0	9	139.0	10	129.0	5
1967	5130.0	8	2830.0	9	1310.0	10	638.0	10	325.0	11	238.0	11	211.0	9	173.0	11	126.0	11	64.8	11
1968	3350.0	11	2360.0	11	1230.0	11	593.0	11	421.0	10	279.0	10	209.0	10	224.0	7	167.0	7	95.0	8
1969	2120.0	12	1200.0	12	639.0	12	431.0	12	221.0	12	175.0	12	119.0	12	109.0	12	94.3	12	52.7	12
1970	831.0	13	612.0	13	389.0	13	279.0	13	183.0	13	109.0	13	77.1	13	62.0	13	56.2	13	40.4	13
1971	4170.0	10	2460.0	10	1370.0	9	911.0	8	506.0	8	297.0	8	198.0	11	213.0	8	150.0	8	75.2	10
1972	4250.0	9	3090.0	8	1510.0	8	816.0	9	448.0	9	294.0	9	226.0	8	226.0	8	185.0	6	109.0	6
1973	6650.0	7	3600.0	7	2040.0	7	1320.0	6	756.0	4	532.0	3	364.0	3	357.0	2	326.0	1	211.0	1
1974	8090.0	5	4170.0	5	2610.0	5	1400.0	4	706.0	5	449.0	4	301.0	5	310.0	4	263.0	3	152.0	3

## STATISTICS OF ANNUAL DISCHARGE FOR WATER YEARS, 1961-74

Units of annual Discharge	Mean	Standard Deviation	Coefficient of Variation	Skew Coefficient	First Order Serial Correlation Coefficient
CFS	103	54.0	0.53	0.34	0.41
LOGS of CFS	1.932	0.311		-1.491	0.175

## RED RIVER BASIN

293

07308500 RED RIVER NEAR BURKBURNETT, TEX.

LOCATION.--Lat 34°06'30", long 98°32'00", Wichita County, on downstream side of bridge on U.S. Highways 277 and 281, 2.0 mi (3.0 km) northeast of Burkburnett, and at mile 933 (1,501 km).

DRAINAGE AREA.--20,570 mi<sup>2</sup> (53,280 km<sup>2</sup>), of which 5,936 mi<sup>2</sup> (15,374 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD.--December 1959 to September 1974.

AVERAGE DISCHARGE.--14 years (1960-74), 767 ft<sup>3</sup>/s (21.7 m<sup>3</sup>/s).

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

## RED RIVER NEAR BURKBURNETT, TEXAS

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34						
YEAR	NUMBER OF DAYS IN CLASS																																			CFS_DAYS					
1961																					6	20	27	30	49	60	87	32	22	12							582301.0				
1962																					22	31	84	79	41	26	17	19	16	11				6	7	3	2	1	1	361877.0	
1963																					24	29	46	90	64	29	9	10	10	1			3	1	1	1			187940.6		
1964	49						1	1		9	4	2		4	6	4	10	9	12	27	40	57	42	24	18	19	11	10	9	2	1								65004.8		
1965																					5	15	13	20	28	41	62	62	32	17	18	17	9	8	5	5	3	2	1	2	293258.1
1966																																							329160.0		
1967																					3	4	21	48	129	39	35	22	15	17	11	5	6	2	3	1				123862.4	
1968																						7	28	15	40	33	42	60	46	27	20	16	10	6	7	4	3	2		326124.0	
1969																						2	14	35	113	58	52	25	19	12	13	5	8	6	2	1			310336.0		
1970	56	1	2	1	2	2	1	1	3	4	3	3	1	2	1	4	4	6	6	62	79	50	32	20	11	5	2	1										75152.5			
1971	48																				4	22	27	29	40	60	60	47	10	37	29	26	13	15	11	5	2		147454.2		
1972																																							213591.0		
1973																						2	2	8	2	5	11	20	57	53	40	43	35	29	14	16	8	9	10	1	539124.6
1974																																								362683.9	

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	153	5113	100.0	9	0.70	15	4913	96.1	18	45.0	433	4178	81.7	27	3000	94	261	5.1					
1	0.01	1	4960	97.0	10	1.10	19	4898	95.8	19	71.0	455	3745	73.2	28	4800	72	167	3.2					
2	0.02	3	4959	97.0	11	1.70	37	4879	95.4	20	110.0	748	3290	64.3	29	7600	48	95	1.8					
3	0.04	2	4956	96.9	12	2.70	30	4842	94.7	21	180.0	703	2542	49.7	30	12000	30	47	.9					
4	0.06	3	4954	96.9	13	4.30	85	4812	94.1	22	290.0	525	1839	36.0	31	19000	10	17	.3					
5	0.10	9	4951	96.8	14	6.90	51	4727	92.5	23	460.0	398	1314	25.7	32	31000	5	7	.1					
6	0.20	8	4942	96.7	15	11.00	92	4676	91.5	24	740.0	314	916	17.9	33	49000	2	2	.0					
7	0.30	4	4934	96.5	16	17.00	179	4584	89.7	25	1200.0	201	602	11.8	34									
8	0.40	17	4930	96.4	17	28.00	227	4405	86.2	26	1900.0	140	401	7.8										

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## RED RIVER NEAR BURKBURNETT, TEXAS

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1962	48.00 10	52.30 11	70.40 11	93.90 11	127.00 11	166.00 12	196.00 10	216.00 9	385.00 9	732.00 7
1963	51.00 12	51.70 10	52.90 10	63.70 10	147.00 13	234.00 13	257.00 12	288.00 11	328.00 8	961.00 11
1964	0.50 4	0.50 4	0.56 4	1.42 4	12.40 4	46.80 7	55.00 4	54.80 3	95.60 3	417.00 5
1965	0.00 1	0.00 1	0.00 1	0.00 1	0.01 2	2.64 2	56.90 5	85.90 5	215.00 5	219.00 2
1966	4.80 5	5.67 5	7.76 5	8.64 5	27.40 7	44.70 6	333.00 13	381.00 13	1210.00 13	1300.00 13
1967	6.80 7	7.33 6	9.11 6	12.80 7	22.70 6	38.50 5	45.50 2	48.10 2	83.60 2	337.00 3
1968	8.80 8	9.47 8	13.90 8	19.40 8	21.20 5	36.40 4	45.50 3	85.10 4	125.00 4	396.00 4
1969	60.00 13	62.00 12	75.70 12	102.00 12	124.00 10	132.00 10	166.00 9	171.00 7	294.00 7	958.00 10
1970	32.00 9	41.30 9	49.40 9	55.20 9	93.30 9	116.00 9	126.00 7	140.00 6	253.00 6	816.00 8
1971	0.00 2	0.00 2	0.00 2	0.00 2	0.00 1	0.79 1	3.01 1	3.71 1	8.56 1	83.80 1
1972	0.00 3	0.00 3	0.00 3	0.00 3	0.14 3	4.10 3	114.00 6	228.00 10	431.00 10	614.00 6
1973	5.00 6	7.33 7	9.23 7	12.50 6	49.20 8	112.00 8	203.00 11	303.00 12	435.00 11	840.00 9
1974	50.00 11	63.30 13	107.00 13	112.00 13	138.00 12	149.00 11	153.00 8	179.00 8	438.00 12	1220.00 12

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## RED RIVER NEAR BURKBURNETT, TEXAS

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1961	49400.0 2	38600.0 2	25200.0 1	15400.0 1	8730.0 1	4720.0 1	3530.0 1	2800.0 1	2160.0 1	1600.0 1
1962	18400.0 9	16600.0 6	12200.0 5	10100.0 2	6220.0 3	3490.0 3	2530.0 3	2130.0 4	1590.0 4	991.0 4
1963	20200.0 7	15500.0 8	9430.0 8	5700.0 9	3350.0 9	1790.0 9	1280.0 10	1030.0 10	760.0 10	515.0 10
1964	5420.0 13	3710.0 13	2150.0 13	1170.0 13	847.0 13	528.0 13	365.0 14	294.0 14	282.0 13	178.0 14
1965	41000.0 3	32700.0 3	17500.0 3	8620.0 4	4240.0 6	2140.0 8	1880.0 6	1940.0 5	1390.0 6	803.0 8
1966	51600.0 1	43700.0 1	20200.0 2	9870.0 3	5260.0 4	2900.0 4	2100.0 5	1660.0 6	1200.0 8	902.0 5
1967	11600.0 10	7260.0 10	4440.0 12	2310.0 12	1310.0 12	974.0 12	845.0 12	845.0 12	599.0 12	339.0 12
1968	28700.0 4	21500.0 4	11400.0 6	6370.0 8	4570.0 8	2840.0 5	2470.0 4	2300.0 3	1620.0 3	891.0 6
1969	21400.0 6	12800.0 9	8380.0 9	6930.0 7	4080.0 7	2600.0 6	1840.0 7	1550.0 7	1380.0 7	850.0 7
1970	3230.0 14	2080.0 14	1200.0 14	755.0 14	535.0 14	499.0 14	408.0 13	337.0 13	274.0 14	206.0 13
1971	9540.0 11	7200.0 11	4500.0 11	3610.0 10	2760.0 10	1770.0 10	1190.0 11	1180.0 9	798.0 9	404.0 11
1972	8110.0 12	6730.0 12	4660.0 10	3190.0 11	2270.0 11	1670.0 11	1300.0 9	989.0 11	740.0 11	584.0 9
1973	19300.0 8	16300.0 7	10200.0 7	7630.0 6	6500.0 2	4240.0 2	3500.0 2	2770.0 2	2140.0 2	1480.0 2
1974	21500.0 5	19000.0 5	14400.0 4	7660.0 5	3910.0 8	2530.0 7	1770.0 8	1430.0 8	1560.0 5	994.0 3

## STATISTICS OF ANNUAL DISCHARGE FOR WATER YEARS, 1961-74

Units of annual Discharge	Mean	Standard Deviation	Coefficient of Variation	Skew Coefficient	First Order Serial Correlation Coefficient
CFS	767	432	0.56	0.49	0.20
LOGS of CFS	2.806	0.292		-0.672	0.102

## RED RIVER BASIN

07310000 LITTLE MEDICINE BLUFF CREEK NEAR LAWTON, OKLA.

LOCATION.--Lat 34°43'45", long 98°30'35", in NW 1/4 SW 1/4 sec.18, T.3 N., R.12 W., 150 ft (3.81 m) downstream from west section line, 0.5 mi (0.8 km) upstream from mouth of Medicine Park, and 12.5 mi (20.1 km) northwest of Lawton.

DRAINAGE AREA.--7.0 mi<sup>2</sup> (18.1 km<sup>2</sup>).

PERIOD OF RECORD.--October 1912 to March 1915, June 1915 to September 1919.

AVERAGE DISCHARGE.--6 years (1913-14, 1916-19), 1.94 ft<sup>3</sup>/s (0.055 m<sup>3</sup>/s).

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

LITTLE MEDICINE BLUFF CREEK NEAR LAWTON, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
YEAR	NUMBER OF DAYS IN CLASS																																		CFS-DAYS
1913	54				60	117	12	56	10	15	4	15	4	2	4	1	6	2	1					1	1										249.2
1914	31				31	24	15	64	15	14	21	30	25	14	9	20	10	11	5	7	6	1	1	1	1	5	1	2	1	1	1	1	1	1	250.1
1916	45				17	123	95	45		15	8		2	5	2	1							2	3											350.8
1917	18248				4	68	18	8		1																									28.0
1918	535												1	1	50																				94.2
1919	5				53	4	6	66	1	9	8	44	4	15	67	6	53	5	8	1	7	2			1	1					1				1170.7

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	486	2191	100.0	9	0.70	39	547	25.0	18	8.4	22	76	3.5	27	95	1	6	.2					
1	0.05	246	1705	77.8	10	1.00	48	508	23.2	19	11.0	6	54	2.5	28	120	2	5	.2					
2	0.06	0	1457	66.5	11	1.30	97	460	21.0	20	14.0	15	48	2.2	29	160	1	5	.1					
3	0.08	4	1457	66.5	12	1.70	4	363	16.6	21	19.0	8	33	1.5	30	210	1	2	.0					
4	0.10	224	1453	66.3	13	2.20	45	354	16.2	22	25.0	4	25	1.1	31	280	1	1	.0					
5	0.20	280	1224	55.9	14	2.90	120	309	14.1	23	32.0	6	21	1.0	32	370								
6	0.30	120	938	42.8	15	5.70	18	189	8.6	24	42.0	6	15	0.7	33									
7	0.40	194	812	37.1	16	4.90	80	171	7.8	25	55.0	1	9	0.4	34									
8	0.60	71	618	28.2	17	6.40	15	91	4.2	26	72.0	2	8	0.4										

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

LITTLE MEDICINE BLUFF CREEK NEAR LAWTON, OKLAHOMA

YEAR	1		3		7		14		30		60		90		120		185		ANNUAL
1913	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.01	3	0.35	5	0.48	4	0.93	5	3.72
1915	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.07	5	0.18	4	0.25	3	0.89	4	4.22
1917	0.00	3	0.00	3	0.00	3	0.00	3	0.00	3	0.04	4	0.05	3	0.08	2	0.10	2	0.64
1918	0.00	4	0.00	4	0.00	4	0.00	4	0.00	4	0.00	1	0.00	1	0.00	1	0.00	1	0.02
1919	0.00	5	0.00	5	0.00	5	0.00	5	0.00	5	0.00	2	0.05	2	0.57	5	0.51	3	1.81

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

LITTLE MEDICINE BLUFF CREEK NEAR LAWTON, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	185	ANNUAL
1913	33.0 4	14.7 4	7.0 4	3.7 4	2.3 5	1.9 4	1.5 4	1.5 4	1.1 4	0.7 4
1914	365.0 1	136.0 1	61.8 1	35.3 1	29.5 1	16.8 1	12.4 1	9.6 1	9.2 1	6.4 1
1916	41.0 3	33.7 3	17.3 3	8.6 3	4.5 3	2.5 3	2.5 3	1.9 3	1.4 3	1.0 3
1917	0.9 6	0.6 6	0.3 6	0.2 6	0.2 6	0.2 6	0.1 6	0.1 6	0.1 6	0.1 6
1918	3.0 5	3.0 5	3.0 5	3.0 5	3.0 4	1.5 5	1.0 5	0.8 5	0.5 5	0.3 5
1919	154.0 2	67.6 2	35.9 2	17.0 2	10.4 2	5.4 2	4.5 2	4.5 2	3.8 2	3.2 2

## RED RIVER BASIN

295

## 07310500 MEDICINE BLUFF CREEK NEAR LAWTON, OKLA.

LOCATION.--Lat 34°43'30", long 98°30'00", in SW 1/4 SE 1/4 sec.18, T.3 N., R.12 W., at Medicine Park, 0.5 mi (0.8 km) downstream from Little Medicine Bluff Creek, 11.8 mi (19.0 km) upstream from mouth, and 12 mi (19.3 km) northwest of Lawton.

DRAINAGE AREA.--101 mi<sup>2</sup> (262 km<sup>2</sup>).

PERIOD OF RECORD.--October 1912 to September 1919.

AVERAGE DISCHARGE.--7 years (1913-1919), 29.8 ft<sup>3</sup>/s (0.844 m<sup>3</sup>/s).

REMARKS.--Most of flow regulated by Lawton Reservoir, 1.33 mi (2.14 km) above station.

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

## MEDICINE BLUFF CREEK NEAR LAWTON, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
YEAR	NUMBER OF DAYS IN CLASS																																		CFS-DAYS
1913			9	14	103	102	14	18	15	7	18	2	12	5	19	9	3	2	2	3	5	1			1	1									1480,4
1914			9	6	23	34	11	14	11	13	15	10	8	12	21	13	15	18	12	17	19	18	16	18	7	8	6	3	2	1	3	2		20134,1	
1915		19	3		9	12	34	29	10	35	3	3	8	10	27	64	10	3	14	8	10	13	8	11	5	5	6	2		2		1	1	15480,6	
1916					1		4		2	3	2	6	3	17	18	116	57	49	27	15	13	12	4	6	3	1	3	2	1	1				10560,4	
1917			65		6	12	22	20	20	158	6	13	32	7			2	1	1															741,1	
1918	4	3	10	22			7	21	105	65	44	70	6	3	3		1				1													876,0	
1919								1		28	13	33	1	5	55	35	39	4	27	23	8	10	16	8	34	10	9	3		1	2			26978,3	

CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT
0	0,00	4	2556	100,0	9	1,80	281	1732	67,8	18	24,0	59	475	18,6	27	330	16	36	1,4
1	0,10	22	2552	99,8	10	2,40	116	1451	56,8	19	32,0	70	416	16,3	28	440	6	20	,7
2	0,20	96	2530	99,0	11	3,20	117	1335	52,2	20	43,0	70	346	13,5	29	580	4	14	,5
3	0,30	42	2434	95,2	12	4,30	102	1218	47,7	21	58,0	53	276	10,8	30	780	4	10	,3
4	0,40	142	2392	93,6	13	5,70	55	1116	43,7	22	77,0	38	223	8,7	31	1000	5	6	,2
5	0,60	160	2250	88,0	14	7,60	93	1061	41,5	23	100,0	52	185	7,2	32	1400	1	1	,0
6	0,80	92	2090	81,8	15	10,00	259	968	37,9	24	140,0	24	133	5,2	33				
7	1,00	102	1998	78,2	16	14,00	122	709	27,7	25	180,0	48	109	4,3	34				
8	1,30	164	1896	74,2	17	18,00	112	587	23,0	26	250,0	25	61	2,4					

CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT
0	0.00	4	2556	100.0	9	1.80	281	1732	67.8	18	24.0	59	475	18.6	27	330	16	36	1.4					
1	0.10	22	2552	99.8	10	2.40	116	1451	56.8	19	32.0	70	416	16.3	28	440	6	20	.7					
2	0.20	96	2530	99.0	11	3.20	117	1355	52.2	20	43.0	70	346	13.5	29	580	4	14	.5					
3	0.30	42	2434	95.2	12	4.30	102	1218	47.7	21	58.0	53	276	10.8	30	780	4	10	.3					
4	0.40	142	2392	93.6	13	5.70	55	1116	43.7	22	77.0	38	223	8.7	31	1000	5	6	.2					
5	0.60	160	2250	88.0	14	7.60	93	1061	41.5	23	100.0	52	185	7.2	32	1400	1	1	.0					
6	0.80	92	2090	81.8	15	10.00	259	968	37.9	24	140.0	24	133	5.2	33									
7	1.00	102	1998	78.2	16	14.00	122	709	27.7	25	180.0	48	109	4.3	34									
8	1.30	164	1896	74.2	17	18.00	112	587	23.0	26	250.0	25	61	2.4										

## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## MEDICINE BLUFF CREEK NEAR LAWTON, OKLAHOMA

YEAR	1		3		7		14		30		60		90		120		183		ANNUAL	
1914	0.20	5	0.20	5	0.20	3	0.40	4	0.74	4	2.83	5	3.31	5	8.67	5	7.39	5	39.10	5
1915	0.10	2	0.10	2	0.10	1	0.10	1	0.40	3	0.94	2	0.95	2	1.33	2	2.19	2	21.50	3
1916	0.40	6	0.40	6	0.57	6	8.14	6	10.20	6	10.70	6	12.80	6	20.70	6	33.50	6	57.40	6
1917	0.20	3	0.20	3	0.20	4	0.20	2	0.23	1	0.74	1	0.85	1	1.19	1	2.33	3	13.30	2
1918	0.20	4	0.20	4	0.20	5	0.20	3	0.31	2	1.15	3	1.35	3	1.39	3	1.52	1	1.62	1
1919	0.00	1	0.03	1	0.14	2	0.46	5	0.66	5	1.52	4	3.05	4	2.84	4	3.27	4	32.50	4

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## MEDICINE BLUFF CREEK NEAR LAWTON, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL										
1913	166.0	5	117.0	5	60.1	5	50.8	5	28.5	5	16.6	5	12.3	5	10.3	5	7.4	5	4.1	5
1914	1390.0	2	1100.0	2	706.0	2	397.0	2	244.0	2	178.0	2	129.0	3	104.0	3	78.7	3	55.2	2
1915	2960.0	1	1540.0	1	778.0	1	453.0	1	294.0	1	194.0	1	138.0	2	106.0	2	81.2	2	42.4	3
1916	648.0	4	457.0	4	321.0	4	180.0	4	100.0	4	59.2	4	43.3	4	41.3	4	36.0	4	28.9	4
1917	23.0	7	11.6	7	7.6	7	5.6	7	5.2	7	4.9	6	3.4	7	3.2	7	2.3	7	2.0	7
1918	64.0	6	30.0	6	16.6	6	9.8	6	6.4	6	4.3	7	4.2	6	4.2	6	3.3	6	2.4	6
1919	1250.0	3	817.0	3	509.0	3	334.0	3	217.0	3	142.0	3	152.0	1	131.0	1	110.0	1	73.9	1





LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## EAST CACHE NEAR WALTERS, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1939	0.40 3	2.20 5	2.54 5	2.83 5	3.90 5	7.14 7	11.80 7	11.50 7	16.20 7	109.00 10
1940	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.02 1	0.07 1	0.33 1	4.88 1
1941	0.00 2	0.00 2	0.00 2	0.00 2	0.03 2	0.14 2	0.35 2	6.17 3	35.60 14	73.10 6
1942	12.00 23	13.70 25	15.60 25	17.70 25	29.90 27	36.40 27	42.80 24	85.50 28	215.00 28	322.00 25
1943	22.00 28	23.30 28	23.70 28	25.80 28	32.10 29	57.60 28	72.10 28	75.10 27	99.40 25	207.00 19
1944	10.00 19	10.00 18	10.10 18	10.40 18	11.30 14	12.30 12	13.20 10	14.70 9	18.00 8	221.00 21
1945	6.20 15	6.47 15	9.34 15	10.10 15	13.20 16	19.90 20	20.10 18	51.20 22	85.90 22	209.00 20
1946	20.00 27	20.00 27	21.00 27	22.40 27	25.80 26	60.00 29	67.50 27	73.30 26	262.00 29	342.00 26
1947	10.00 20	10.30 20	10.60 19	11.20 18	13.40 17	18.80 17	21.00 19	24.50 17	61.60 17	124.00 14
1948	9.60 17	9.87 17	10.00 17	11.00 17	15.00 20	15.40 15	17.50 14	23.80 16	63.20 18	364.00 27
1949	5.00 10	5.00 10	5.31 8	5.76 7	6.28 8	7.27 8	8.65 6	8.79 5	12.60 4	96.70 7
1950	5.80 13	6.30 13	6.59 13	7.17 13	7.81 10	11.60 10	13.90 11	15.00 10	15.50 6	104.00 9
1951	12.00 24	13.00 23	14.70 24	15.40 24	16.20 22	17.20 16	17.50 15	18.80 13	25.00 11	133.00 15
1952	11.60 22	12.30 22	13.10 22	14.10 23	14.50 19	18.90 18	19.50 17	19.70 15	29.50 12	396.00 28
1953	5.70 11	5.77 11	5.99 11	6.21 10	6.44 9	7.07 6	7.81 5	8.71 4	8.85 3	113.00 11
1954	5.70 12	5.77 12	5.87 10	5.94 9	6.20 7	12.00 11	18.70 16	48.00 20	88.50 23	133.00 16
1955	1.40 5	1.73 4	2.03 4	2.10 4	2.28 3	2.82 3	3.09 3	3.48 2	5.10 2	100.00 8
1956	4.00 7	4.17 6	4.20 6	4.55 6	5.58 6	7.00 5	11.90 8	19.20 14	171.00 26	242.00 22
1957	0.90 4	1.13 3	1.31 3	1.85 3	2.46 4	3.11 4	4.47 4	10.50 6	22.50 10	33.20 3
1958	10.00 21	10.70 21	11.40 21	12.00 19	12.30 15	33.30 24	46.60 25	67.20 24	80.60 21	400.00 29
1959	7.80 14	8.10 14	8.73 14	9.27 14	10.60 13	14.00 13	14.80 13	15.10 11	15.10 5	58.00 4
1960	8.80 16	9.20 16	9.94 16	12.20 21	16.50 23	34.50 26	119.00 29	140.00 29	184.00 27	296.00 23
1961	13.00 25	13.70 24	13.90 23	14.00 22	15.50 21	19.10 19	42.10 23	50.10 21	72.60 20	121.00 13
1962	17.00 26	17.30 26	18.10 26	20.30 26	21.40 25	29.00 22	63.50 26	72.10 25	88.50 24	137.00 17
1963	27.00 29	27.30 29	28.50 29	30.30 29	31.50 28	34.30 25	36.50 22	57.60 23	68.80 19	314.00 24
1971	4.20 9	4.47 9	6.11 12	7.04 12	9.04 11	10.50 9	12.10 9	15.80 12	20.00 9	31.50 2
1972	4.10 8	4.60 8	5.57 9	6.66 11	13.60 18	20.30 21	23.50 20	36.90 19	33.50 13	64.70 5
1973	3.60 6	4.30 7	4.86 7	5.79 8	9.82 12	14.00 14	14.20 12	14.10 8	41.30 15	157.00 18
1974	9.70 18	10.20 19	11.00 20	12.10 20	19.50 24	29.50 23	53.50 21	55.10 18	54.70 16	114.00 12

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## EAST CACHE NEAR WALTERS, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1939	290.0 30	140.0 30	91.1 30	62.8 30	35.6 30	24.7 30	18.8 30	20.2 30	16.5 30	12.6 30
1940	1770.0 27	983.0 28	457.0 28	247.0 28	223.0 27	134.0 27	107.0 27	93.4 27	62.5 27	31.5 29
1941	9230.0 4	6870.0 8	4320.0 5	2790.0 6	1720.0 6	1160.0 6	810.0 6	620.0 7	456.0 6	251.0 8
1942	4470.0 17	3740.0 16	1800.0 18	955.0 18	806.0 15	518.0 13	418.0 12	329.0 12	314.0 10	271.0 6
1943	8110.0 13	5790.0 11	3040.0 11	2900.0 5	2150.0 5	1170.0 5	822.0 5	634.0 6	444.0 7	259.0 7
1944	3750.0 21	2460.0 19	1210.0 22	642.0 21	374.0 21	220.0 24	188.0 24	151.0 24	109.0 25	65.3 25
1945	9260.0 7	6280.0 10	3760.0 9	1770.0 11	1190.0 8	1100.0 7	804.0 7	682.0 5	533.0 4	392.0 2
1946	8370.0 12	4770.0 14	2740.0 13	1430.0 13	779.0 17	497.0 16	345.0 17	278.0 16	233.0 16	199.0 11
1947	17900.0 2	11600.0 2	6370.0 3	3790.0 3	2370.0 4	1440.0 4	1030.0 4	767.0 4	526.0 5	293.0 5
1948	3620.0 22	2150.0 23	1250.0 20	953.0 19	803.0 16	548.0 11	421.0 11	350.0 10	263.0 12	159.0 15
1949	3780.0 20	2360.0 21	1880.0 17	1270.0 14	876.0 13	512.0 14	360.0 15	320.0 14	252.0 14	133.0 16
1950	5640.0 16	4110.0 15	2070.0 15	1020.0 17	842.0 14	528.0 12	432.0 10	338.0 11	241.0 15	133.0 17
1951	24600.0 1	17500.0 1	10200.0 1	5160.0 1	3540.0 1	2190.0 1	1500.0 1	1150.0 1	763.0 1	394.0 1
1952	8540.0 11	5740.0 12	2860.0 12	1630.0 12	981.0 11	509.0 15	361.0 14	275.0 17	188.0 17	107.0 18
1953	4160.0 18	2780.0 18	1250.0 21	598.0 22	329.0 23	226.0 23	197.0 23	164.0 22	131.0 22	70.2 24
1954	9650.0 6	6810.0 9	3380.0 10	1890.0 9	1060.0 10	555.0 10	380.0 13	290.0 15	253.0 13	181.0 12
1955	13500.0 3	9860.0 3	4700.0 4	2490.0 7	1470.0 7	757.0 8	512.0 9	388.0 9	313.0 11	162.0 14
1956	9100.0 9	7260.0 6	3830.0 8	1870.0 10	944.0 12	477.0 17	325.0 18	249.0 18	171.0 20	103.0 19
1957	13200.0 4	7260.0 7	4030.0 7	2490.0 4	2590.0 3	1960.0 2	1350.0 2	1030.0 2	705.0 2	369.0 3
1958	2180.0 26	1250.0 26	651.0 25	445.0 25	334.0 22	252.0 22	198.0 22	171.0 21	139.0 21	96.6 21
1959	3780.0 19	2390.0 20	1330.0 19	721.0 20	472.0 20	368.0 19	292.0 19	235.0 19	184.0 18	100.0 20
1960	9650.0 10	7530.0 5	4170.0 6	2060.0 8	1080.0 9	662.0 9	569.0 8	505.0 8	407.0 8	243.0 9
1961	8020.0 15	3390.0 17	1880.0 16	1030.0 16	549.0 19	323.0 20	247.0 20	213.0 20	176.0 19	163.0 13
1962	10000.0 5	7440.0 4	7080.0 2	4640.0 2	2690.0 2	1450.0 3	1050.0 3	806.0 3	562.0 3	329.0 4
1963	2740.0 25	1400.0 25	646.0 26	356.0 26	301.0 25	178.0 26	145.0 26	117.0 26	113.0 24	75.3 23
1970	1640.0 28	1030.0 27	465.0 27	237.0 29	132.0 29	84.4 29	65.5 29	55.3 29	43.7 29	38.8 28
1971	5180.0 23	2240.0 22	1160.0 23	569.0 23	310.0 24	195.0 25	151.0 25	135.0 25	95.9 26	58.1 26
1972	1050.0 29	571.0 29	394.0 29	250.0 27	191.0 28	108.0 28	78.4 28	64.7 28	59.6 28	39.8 27
1973	7630.0 14	5060.0 13	2330.0 14	1160.0 15	630.0 16	462.0 18	353.0 16	324.0 13	318.0 9	208.0 10
1974	2220.0 24	1710.0 24	850.0 24	492.0 24	274.0 26	258.0 21	198.0 21	157.0 23	117.0 23	88.9 22

## RED RIVER BASIN

07311200 BLUE BEAVER CREEK NEAR CACHE, OKLA.  
(Hydrologic bench-mark station)

LOCATION.--Lat 34°37'24", long 98°33'48", in NE 1/4 NE 1/4 sec.28, T.2 N., R.13 W., Comanche County, on downstream side of right bank pier of bridge on U.S. Highway 62, 3,000 ft (914.4 m) upstream from St. Louis-San Francisco Railway Co. bridge, 4.0 mi (6.4 km) east of Cache, and at mile 12.0 (19.3 km).

DRAINAGE AREA.--24.6 mi<sup>2</sup> (63.7 km<sup>2</sup>).

PERIOD OF RECORD.--July 1964 to September 1974.

AVERAGE DISCHARGE.--10 years (1965-74), 8.24 ft<sup>3</sup>/s (0.233 m<sup>3</sup>/s).

REMARKS.--Minor regulation by Lake Rush, Lake Jed Johnson, and Lake Ketch, combined surface-area 132 acres (534,000 m<sup>2</sup>).

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

BLUE BEAVER CREEK NEAR CACHE, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS	
1965	116						4	5	1	4	10	20	11	32	31	28	25	21	12	15	9	6	2	2	2	3	3	3								3078.4
1966	310							11	9	3	3	2	4	2	2	1	2	2	1	1	1	1	1	1												174.4
1967	250	4	3	4	4	6	14	18	11	7	3	3	4	3	3	3		1	2			1	2					1								260.4
1968	36	2	4	7	3	8	13	9	5	10	21	26	14	20	15	11	14	21	20	30	25	18	13	7	7	2	3					1	1			5270.5
1969	86	7	5	4	3	5	12	8	8	4	5	5	27	24	22	17	24	14	12	12	22	8	9	8	5	3			1	1			1		4052.9	
1970	95	1	1	6	1	1	3		4	37	75	47	7	9	6	3	12	11	6	16	9	4			2	2	1									1248.2
1971	118	9	23	67	67	23	3	8	4	3	4	4				1	1	1	1	2	1	2	1			2										418.0
1972	82	4	2	6	2	5	3	1	18	28	20	26	31	42	20	13	15	9	14	8	6	4	2	2					1	1						1969.2
1973	33	2	2	2	1	5	9	6	6	9	6	9	7	5	13	18	36	15	49	27	19	26	14	15	8	4	7	3	2	4			1			9968.8
1974	74	3	2	1	1	3	7	3		2	1	10	28	26	37	42	41	27	13	12	6	6	4	3		2	2		2	2						3659.2

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	1221	3652	100.0	9	0.40	97	1899	52.0	18	8.8	125	604	16.5	27	190	8	24	.6
1	0.01	32	2431	66.6	10	0.60	157	1802	49.3	19	12.0	129	479	13.1	28	260	6	16	.4
2	0.02	42	2399	65.7	11	0.80	148	1645	45.0	20	17.0	101	350	9.6	29	370	7	10	.2
3	0.03	47	2357	64.5	12	1.20	126	1497	41.0	21	24.0	79	249	6.8	30	520	2	3	.0
4	0.05	107	2260	61.4	13	1.60	157	1371	37.5	22	34.0	47	170	4.7	31	730	1	1	.0
5	0.07	56	2153	59.0	14	2.30	172	1214	33.2	23	48.0	40	123	3.4	32				
6	0.10	84	2097	57.4	15	3.20	145	1042	28.5	24	68.0	26	83	2.3	33				
7	0.20	71	2013	55.1	16	4.50	168	897	24.6	25	95.0	18	57	1.6	34				
8	0.30	43	1942	53.2	17	6.30	125	729	20.0	26	130.0	15	39	1.1					

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

BLUE BEAVER CREEK NEAR CACHE, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1966	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	2.79 3
1967	0.00 2	0.00 2	0.00 2	0.00 2	0.00 2	0.00 2	0.00 2	0.00 2	0.00 2	0.48 1
1968	0.00 3	0.00 3	0.00 3	0.00 3	0.00 3	0.04 7	0.07 7	0.19 6	0.71 4	7.15 5
1969	0.00 4	0.00 4	0.00 4	0.01 6	0.01 6	0.04 6	0.24 8	0.27 7	1.33 5	12.60 7
1970	0.00 5	0.00 5	0.00 5	0.00 4	0.00 4	0.00 5	0.05 6	0.69 8	1.41 6	8.33 6
1971	0.00 6	0.00 6	0.00 6	0.00 5	0.00 5	0.00 4	0.01 4	0.05 5	0.05 3	1.58 2
1972	0.00 7	0.00 7	0.00 7	0.00 6	0.00 6	0.00 5	0.01 5	0.01 3	2.24 7	3.72 4
1973	0.00 8	0.00 8	0.00 8	0.00 7	0.00 7	0.00 6	0.00 3	0.01 4	2.36 8	20.00 9
1974	0.00 9	0.00 9	0.00 9	0.03 9	0.10 9	0.34 9	2.66 9	3.57 9	9.00 9	16.00 8

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

BLUE BEAVER CREEK NEAR CACHE, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1965	241.0 6	200.0 5	111.0 5	79.2 5	50.2 4	28.4 5	20.1 5	16.7 5	16.2 5	8.4 5
1966	60.0 10	35.7 10	20.4 9	10.9 9	5.7 9	2.9 9	1.9 10	1.5 10	1.0 10	0.5 10
1967	100.0 9	34.0 9	16.6 10	7.9 10	4.3 10	2.3 10	2.8 9	2.2 9	1.4 9	0.7 9
1968	724.0 2	413.0 2	202.0 2	102.0 3	67.8 2	42.3 3	33.9 3	34.8 2	27.9 2	14.4 2
1969	745.0 3	353.0 3	193.0 3	118.0 2	64.1 3	38.3 4	36.6 2	29.6 3	20.5 3	11.1 3
1970	111.0 8	81.3 8	45.0 8	27.5 7	22.1 7	17.3 6	12.5 6	9.5 6	6.5 7	3.4 7
1971	115.0 7	87.0 7	45.2 7	21.4 8	12.8 8	6.8 8	4.5 8	3.4 8	2.2 8	1.1 8
1972	272.0 5	117.0 6	45.3 6	30.4 6	32.3 6	16.8 7	11.4 7	8.9 7	8.9 6	5.4 6
1973	1010.0 1	514.0 1	263.0 1	168.0 1	109.0 1	73.3 1	61.7 1	53.3 1	43.1 1	27.3 1
1974	467.0 4	301.0 4	165.0 4	83.7 4	43.7 5	42.6 2	30.5 4	23.3 4	16.9 4	10.0 4

## RED RIVER BASIN

299

07311500 DEEP RED RUN NEAR RANDLETT, OKLA.

LOCATION.--Lat 34°13'15", long 98°27'10", in SW 1/4 SW 1/4 sec.10, T.4 S., R.12 W., Cotton County, near right bank on downstream side of pier of bridge on U.S. Highway 277, 2.8 mi (4.5 km) north of Randlett, and at mile 4.8 (7.7 km).

DRAINAGE AREA.--617 mi<sup>2</sup> (1,598 km<sup>2</sup>).

PERIOD OF RECORD.--October 1949 to September 1974.

AVERAGE DISCHARGE.--25 years (1950-74), 110 ft<sup>3</sup>/s (3.11 m<sup>3</sup>/s).

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

DEEP RED RUN NEAR RANDLETT, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	
YEAR	NUMBER OF DAYS IN CLASS																																			CFS_DAYS
1950																																				63714.6
1951	1																																			71276.8
1952	98																																			33424.3
1953	192																																			5767.3
1954	101																																			57369.1
1955	239																																			48550.6
1956	77																																			31477.8
1957	78																																			118878.2
1958	26																																			26117.9
1959	18																																			29133.2
1960	17																																			47124.4
1961	23																																			52588.4
1962	15																																			37893.3
1963	41																																			18739.1
1964	127																																			6239.9
1965	48																																			20469.0
1966	86																																			24697.0
1967	34																																			11073.2
1968	59	1																																		43663.3
1969	33	3	4																																	65299.7
1970	54	1																																		12653.3
1971	58	5	2	7	7	7	32	37	43	51	34	20	9	7	5	4	6	3	5	3	2	1	3	4	1										20406.5	
1972	40						1	2	1	5	8	9	10	58	55	57	20	14	13	15	6	11	4	9	8	5	9	3	2						13021.3	
1973	2	1					2	1	1	2		1	2	5	45	33	37	34	43	28	17	16	15	5	13	15	6	16	10	6	3	4			113342.7	
1974	13						3	3	22	19	7	10	14	50	92	39	17	18	10		9	3	4	5	1	6	10	4	2	1					35264.0	

CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT
0	0.00	1480	9131	100.0	9	0.50	343	6750	73.9	18	24.0	245	1543	16.9	27	1200	75	200	2.1
1	0.01	11	7651	83.8	10	0.70	481	6407	70.2	19	37.0	216	1298	14.2	28	1900	59	125	1.3
2	0.02	6	7640	83.7	11	1.10	556	5926	64.9	20	57.0	156	1082	11.8	29	3000	23	66	.7
3	0.03	14	7634	83.6	12	1.70	551	5370	58.8	21	89.0	141	926	10.1	30	4700	30	43	.4
4	0.05	15	7620	83.5	13	2.60	1051	4819	52.8	22	140.0	129	785	8.6	31	7200	7	13	.1
5	0.07	12	7605	83.3	14	4.10	796	3768	41.3	23	210.0	128	656	7.2	32	11000	4	6	.0
6	0.10	244	7593	83.2	15	6.40	550	2972	32.5	24	330.0	122	528	5.8	33	17000	2	2	.0
7	0.20	239	7349	80.5	16	9.90	498	2422	26.5	25	520.0	99	406	4.4	34				
8	0.30	360	7110	77.9	17	15.00	381	1924	21.1	26	800.0	107	307	3.4					

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## DEEP RED RIVER NEAR HANDLETT, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1951	2.00 23	2.13 23	2.23 23	2.43 23	2.87 22	3.24 18	3.34 14	3.36 12	13.80 9	166.00 17
1952	0.00 1	0.00 1	0.00 1	0.00 1	0.02 11	0.80 12	0.78 8	0.95 7	15.50 11	197.00 22
1953	0.00 2	0.00 2	0.00 2	0.00 2	0.00 1	0.00 1	0.00 1	0.00 1	0.03 2	86.40 12
1954	0.00 3	0.00 3	0.00 3	0.00 3	0.02 12	0.27 10	0.29 4	7.42 17	15.60 12	72.40 11
1955	0.00 4	0.00 4	0.00 4	0.00 4	0.00 2	0.00 2	0.00 2	0.00 2	0.00 1	98.20 13
1956	0.00 5	0.00 5	0.00 5	0.00 5	0.00 3	2.68 16	2.61 13	2.82 11	166.00 24	214.00 23
1957	0.00 6	0.00 6	0.00 6	0.00 6	0.00 4	0.00 4	1.02 9	0.81 6	6.43 7	19.80 2
1958	0.00 7	0.00 7	0.00 7	0.00 7	0.06 15	0.88 13	3.95 15	4.90 16	25.40 15	331.00 24
1959	0.00 8	0.00 8	0.00 8	0.00 8	0.02 13	0.36 11	0.48 6	0.66 4	0.72 3	50.50 8
1960	0.00 9	0.00 9	0.01 22	0.14 22	2.00 21	26.50 24	27.00 24	88.70 24	158.00 23	171.00 18
1961	0.00 10	0.00 10	0.00 9	0.00 9	0.28 16	2.29 15	16.60 23	28.60 23	74.50 22	139.00 16
1962	0.00 11	0.00 11	0.00 10	0.00 10	3.55 23	3.79 20	4.00 16	5.18 15	14.50 10	49.30 6
1963	0.00 12	0.00 12	0.00 11	0.00 11	0.39 19	7.95 23	8.90 22	21.00 20	37.10 18	116.00 14
1964	0.00 13	0.00 13	0.00 12	0.00 12	0.00 5	0.14 8	1.22 10	1.04 6	0.72 3	50.50 8
1965	0.00 14	0.00 14	0.00 13	0.00 13	0.00 6	0.06 7	0.48 7	2.53 10	25.30 14	40.60 7
1966	0.00 15	0.00 15	0.00 14	0.00 14	0.78 20	1.03 14	1.24 11	1.47 9	27.00 16	32.70 3
1967	0.00 16	0.00 16	0.00 15	0.00 15	0.00 7	0.00 4	0.01 3	0.66 5	1.15 5	54.60 9
1968	0.00 17	0.00 17	0.00 16	0.00 16	0.00 8	0.16 9	4.95 18	9.20 19	19.40 13	48.70 5
1969	0.00 18	0.00 18	0.00 17	0.07 21	0.28 17	3.28 19	6.23 19	6.16 16	11.20 8	120.00 15
1970	0.00 19	0.00 19	0.00 18	0.01 20	0.31 18	3.97 21	4.09 17	4.40 13	40.50 19	180.00 20
1971	0.00 20	0.00 20	0.00 19	0.00 17	0.00 9	0.01 5	0.40 5	0.51 3	0.99 4	14.90 1
1972	0.00 21	0.00 21	0.00 20	0.00 18	0.00 10	0.06 6	2.24 12	4.75 14	29.90 17	70.20 10
1973	0.00 22	0.00 22	0.00 21	0.00 19	0.06 14	2.82 17	8.91 21	25.20 22	41.30 20	190.00 21
1974	2.20 24	2.40 24	2.81 24	2.95 24	3.55 24	4.20 22	8.34 20	21.50 21	54.20 21	172.00 19

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## DEEP RED RIVER NEAR HANDLETT, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1950	8520.0 7	6730.0 6	3610.0 8	1740.0 9	1270.0 4	739.0 4	504.0 4	408.0 5	318.0 5	175.0 5
1951	17400.0 2	13200.0 1	7560.0 1	3590.0 1	2150.0 2	1130.0 2	758.0 2	571.0 2	385.0 3	195.0 3
1952	9680.0 5	6300.0 7	3090.0 10	1750.0 8	948.0 9	486.0 11	334.0 10	251.0 11	188.0 12	91.3 13
1953	1130.0 23	637.0 23	278.0 24	137.0 24	86.3 24	48.5 24	32.5 24	31.6 24	29.8 24	15.8 25
1954	7030.0 9	5760.0 10	3100.0 9	1560.0 10	1100.0 5	560.0 6	392.0 7	294.0 7	144.0 9	157.0 8
1955	6640.0 10	5960.0 9	3720.0 7	2010.0 4	1030.0 7	565.0 7	381.0 8	288.0 8	262.0 6	133.0 8
1956	9390.0 6	7450.0 5	4210.0 4	1990.0 6	995.0 8	499.0 10	334.0 11	251.0 12	166.0 13	86.0 14
1957	6630.0 11	4980.0 8	4350.0 3	3420.0 2	2660.0 1	1820.0 1	1250.0 1	946.0 1	625.0 1	328.0 1
1958	2160.0 19	1710.0 20	818.0 21	445.0 19	287.0 19	182.0 19	193.0 18	165.0 16	116.0 16	71.6 16
1959	2600.0 17	1800.0 18	871.0 18	532.0 17	412.0 16	344.0 14	300.0 14	227.0 14	156.0 14	79.8 15
1960	8460.0 8	5210.0 11	2690.0 12	1270.0 12	636.0 13	378.0 13	331.0 12	262.0 10	183.0 11	129.0 9
1961	11400.0 3	7730.0 4	3820.0 6	1860.0 7	933.0 10	528.0 9	370.0 9	283.0 9	212.0 8	104.0 7
1962	4410.0 15	3510.0 14	2000.0 14	1250.0 13	760.0 12	461.0 12	322.0 13	246.0 13	193.0 10	104.0 11
1963	1400.0 22	1030.0 22	488.0 22	297.0 22	184.0 22	147.0 20	132.0 20	101.0 20	71.3 20	51.3 20
1964	723.0 25	407.0 25	200.0 25	122.0 25	83.1 25	45.9 25	30.9 25	31.2 25	25.3 25	17.0 24
1965	2520.0 18	1990.0 17	933.0 17	489.0 18	403.0 17	220.0 18	107.0 19	111.0 19	77.4 19	56.1 18
1966	4650.0 16	3440.0 15	1890.0 15	1120.0 15	621.0 14	314.0 16	209.0 16	157.0 17	108.0 18	67.7 17
1967	1590.0 21	1360.0 21	827.0 20	391.0 21	219.0 20	137.0 22	93.0 22	70.8 22	59.5 21	30.3 23
1968	5640.0 13	5060.0 12	2980.0 11	1520.0 11	849.0 11	544.0 8	400.0 6	305.0 6	229.0 7	119.0 10
1969	20700.0 1	12800.0 2	6120.0 2	2870.0 3	1490.0 3	778.0 3	522.0 3	418.0 4	318.0 4	179.0 4
1970	2110.0 20	1760.0 19	865.0 19	413.0 20	219.0 21	145.0 21	100.0 21	75.8 21	51.3 22	34.7 22
1971	4910.0 14	2820.0 16	1240.0 16	591.0 16	376.0 18	328.0 15	218.0 15	169.0 15	111.0 17	55.9 19
1972	1020.0 24	596.0 24	282.0 23	148.0 23	140.0 23	71.7 23	58.3 23	44.6 23	41.3 23	35.6 21
1973	11000.0 4	7820.0 3	3880.0 5	2000.0 5	1040.0 6	634.0 5	495.0 5	434.0 3	442.0 2	311.0 2
1974	6340.0 12	4960.0 13	2530.0 13	1160.0 14	579.0 15	291.0 17	194.0 17	157.0 18	131.0 15	96.6 12

## STATISTICS OF ANNUAL DISCHARGE FOR WATER YEARS, 1950-74

Units of annual Discharge	Mean	Standard Deviation	Coefficient of Variation	Skew Coefficient	First Order Serial Correlation Coefficient
CFS	110	81.0	0.73	1.34	-0.06
LOGS of CFS	1.926	0.346		-0.429	0.04

## RED RIVER BASIN

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## 07321500 WICHITA RIVER AT WICHITA FALLS, TEX.

LOCATION.--Lat 33°54'34", long 98°32'00", Wichita County, near center of stream on downstream side of bridge on Beverly Drive in Wichita Falls, 4 mi (6 km) upstream from Fort Worth and Denver Railway Co. bridge, 8.4 mi (13.5 km) upstream from Holliday Creek, and at mile 55.3 (89.0 km).

DRAINAGE AREA.--3,140 mi<sup>2</sup> (8,133 km<sup>2</sup>), of which 2,086 mi<sup>2</sup> (5,403 km<sup>2</sup>) is above Lake Kemp Dam.

PERIOD OF RECORD.--March 1938 to September 1974.

AVERAGE DISCHARGE.--36 years (1939-64), 276 ft<sup>3</sup>/s (7.82 m<sup>3</sup>/s).

REMARKS.--Flow regulated by Lake Kemp in Texas.

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

## WICHITA RIVER AT WICHITA FALLS, TEXAS

CLASS 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34

YEAR	NUMBER OF DAYS IN CLASS																																	CFS_DAYS
1939																																48628.0		
1940																																49690.0		
1941																																356754.0		
1942																																239455.0		
1943																																66068.0		
1944																																30199.0		
1945																																81662.0		
1946																																43403.0		
1947																																127576.0		
1948																																64177.0		
1949																																54769.0		
1950																																279949.0		
1951																																115813.0		
1952																																44091.0		
1953																																32221.0		
1954																																113200.0		
1955																																113494.0		
1956																																154989.0		
1957																																232314.0		
1958																																108821.0		
1959																																53311.0		
1960																																86176.0		
1961																																151499.0		
1962																																58875.0		
1963																																47041.0		
1964																																54632.0		
1965																																53442.0		
1966																																106244.0		
1967																																125896.0		
1968																																89616.0		
1969																																64868.0		
1970																																59164.0		
1971																																67722.0		
1972																																55039.0		
1973																																144129.0		
1974																																58059.0		

CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT
0	0.00	12	13149	100.0	9	80.00	1261	7100	54.0	18	520.0	184	1310	10.0	27	3400	43	150	1.1
1	15.00	8	13137	99.9	10	99.00	1101	5839	44.4	19	650.0	168	1126	8.6	28	4200	40	107	.8
2	18.00	40	13129	99.8	11	120.00	1065	4738	36.0	20	800.0	155	958	7.3	29	5200	39	67	.5
3	23.00	139	13089	99.5	12	150.00	724	3673	27.9	21	980.0	127	803	6.1	30	6500	16	26	.2
4	28.00	541	12950	98.5	13	180.00	589	2949	22.4	22	1200.0	159	676	5.1	31	8000	5	12	.0
5	35.00	1008	12409	94.4	14	230.00	333	2360	17.9	23	1500.0	91	517	3.9	32	9800	4	7	.0
6	43.00	1572	11401	86.7	15	280.00	271	2027	15.4	24	1800.0	121	426	3.2	33	12000	2	3	.0
7	53.00	1552	10029	76.3	16	350.00	263	1756	13.4	25	2300.0	95	305	2.3	34	15000	1	1	
8	65.00	1377	8477	64.5	17	430.00	183	1493	11.4	26	2800.0	60	210	1.6					



## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## WICHITA RIVER AT WICHITA FALLS, TEXAS

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1939	24.00 17	28.30 20	29.90 18	32.10 14	35.60 10	44.10 11	53.50 16	56.50 13	59.90 4	425.00 32
1940	26.00 20	27.30 19	28.00 8	29.60 7	36.70 11	39.40 6	41.60 5	45.30 4	52.20 1	114.00 2
1941	28.00 24	29.30 22	29.90 19	33.80 16	43.80 21	71.30 32	152.00 34	156.00 34	197.00 31	235.00 22
1942	36.00 30	38.70 31	40.60 30	53.80 34	88.30 36	180.00 36	174.00 36	198.00 36	996.00 36	1350.00 36
1943	20.00 8	26.00 16	33.30 22	37.90 23	42.10 18	45.30 12	57.10 18	59.50 16	126.00 20	221.00 20
1944	17.00 4	28.70 21	34.30 24	38.40 25	47.60 26	55.40 26	61.40 21	59.80 17	68.00 8	151.00 9
1945	22.00 10	23.70 10	28.10 9	38.10 24	45.40 24	51.90 20	51.90 14	55.60 11	96.00 15	142.00 6
1946	24.00 18	24.00 11	24.10 2	25.10 2	28.90 2	39.50 7	41.10 4	41.40 2	132.00 23	183.00 13
1947	20.00 5	22.00 5	24.10 3	26.60 3	37.40 13	39.50 8	41.90 6	65.60 19	132.00 24	145.00 7
1948	22.00 11	24.00 12	26.40 5	31.80 12	39.90 15	42.40 10	64.60 25	79.50 25	83.20 11	313.00 27
1949	36.00 31	38.30 30	40.60 31	42.60 29	45.30 23	52.70 23	53.10 15	76.00 23	91.10 14	192.00 16
1950	29.00 25	29.70 23	31.60 20	35.40 18	48.20 29	127.00 35	156.00 35	159.00 35	182.00 29	214.00 19
1951	44.00 36	45.70 36	58.70 36	65.00 36	71.40 35	73.10 33	80.30 31	90.30 29	350.00 34	814.00 35
1952	15.00 2	20.00 3	35.70 26	43.90 30	48.10 27	52.50 22	55.60 17	57.90 15	87.30 13	191.00 14
1953	23.00 14	25.70 15	29.30 16	29.90 8	34.60 7	36.60 3	43.90 8	49.60 8	61.70 5	110.00 1
1954	23.00 15	24.00 13	27.60 7	30.60 10	37.80 14	40.90 9	43.10 7	49.50 7	110.00 19	149.00 8
1955	23.00 16	25.70 14	28.70 13	29.10 4	35.30 9	66.70 31	66.20 26	69.50 20	78.60 10	259.00 26
1956	38.00 32	39.70 32	42.70 32	48.40 31	52.80 31	61.60 28	71.60 28	84.70 28	535.00 35	616.00 33
1957	22.00 12	22.70 7	28.60 12	32.10 15	32.70 4	64.50 29	71.60 29	81.60 27	109.00 18	135.00 5
1958	27.00 21	27.00 17	28.10 10	29.40 5	52.70 30	53.50 24	63.90 24	106.00 31	175.00 28	665.00 34
1959	33.00 29	34.70 28	35.70 27	39.60 27	43.80 22	46.20 13	51.80 13	54.80 10	62.10 6	241.00 23
1960	27.00 22	27.30 18	28.40 11	30.20 9	33.70 6	53.60 25	61.70 22	116.00 32	230.00 33	254.00 25
1961	27.00 23	30.00 24	32.40 21	37.00 21	48.10 28	51.90 21	68.60 27	119.00 33	188.00 30	315.00 28
1962	32.00 27	36.00 29	38.10 29	39.20 26	46.50 25	46.90 16	48.50 10	53.70 9	65.90 7	229.00 21
1963	20.00 6	23.00 8	29.10 15	31.80 13	34.70 8	34.80 2	38.40 2	55.80 12	75.20 9	166.00 11
1964	15.00 3	18.30 2	24.30 4	29.60 6	32.80 5	37.40 4	46.90 9	45.80 5	57.70 3	120.00 4
1965	32.00 26	32.70 27	34.40 25	35.10 17	36.90 12	46.30 14	59.00 20	56.70 14	98.90 16	169.00 12
1966	20.00 7	23.30 9	29.70 17	31.10 11	32.30 3	37.90 5	40.90 3	41.80 3	107.00 17	152.00 10
1967	43.00 35	43.70 35	46.00 33	51.00 33	57.80 32	60.10 27	63.30 23	64.70 18	215.00 32	341.00 29
1968	38.00 33	42.70 34	47.40 34	54.10 35	60.40 34	64.90 30	83.70 32	81.30 26	128.00 21	350.00 31
1969	22.00 13	22.30 6	26.90 6	37.40 22	41.60 17	50.90 19	71.80 30	69.80 21	84.10 12	191.00 15
1970	21.00 9	22.00 4	28.90 14	36.00 19	40.20 16	48.10 18	58.90 19	71.10 22	147.00 25	196.00 18
1971	51.00 26	52.30 26	54.10 23	56.10 20	43.30 20	47.40 17	48.90 11	48.80 6	56.80 2	117.00 3
1972	26.00 19	31.70 25	37.10 28	40.60 28	42.20 19	46.50 15	50.40 12	78.40 24	169.00 27	241.00 24
1973	39.00 34	41.30 33	49.30 35	50.70 32	56.00 33	78.70 34	96.90 33	95.30 30	132.00 22	344.00 30
1974	12.00 1	12.00 1	12.40 1	16.20 1	22.40 1	24.90 1	27.30 1	38.10 1	155.00 26	194.00 17

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## WICHITA RIVER AT WICHITA FALLS, TEXAS

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1939	2230.0 29	1500.0 31	881.0 51	586.0 30	399.0 30	279.0 31	241.0 30	225.0 29	205.0 27	133.0 31
1940	1990.0 32	1620.0 28	917.0 30	512.0 31	335.0 33	305.0 29	294.0 22	265.0 23	219.0 25	136.0 30
1941	14900.0 2	11400.0 2	8540.0 1	6630.0 1	5190.0 1	4340.0 1	3230.0 1	2480.0 1	1700.0 1	977.0 1
1942	17300.0 1	12400.0 1	6820.0 2	4350.0 4	4140.0 3	2640.0 4	1850.0 4	1410.0 4	997.0 4	656.0 3
1943	3080.0 23	2130.0 22	1270.0 26	885.0 22	530.0 22	383.0 22	326.0 20	296.0 21	239.0 23	181.0 19
1944	640.0 36	511.0 36	304.0 36	226.0 36	187.0 36	149.0 36	126.0 36	110.0 36	96.0 36	82.5 36
1945	4690.0 15	2750.0 19	1740.0 19	845.0 23	515.0 23	436.0 19	325.0 21	289.0 22	272.0 18	224.0 17
1946	3180.0 22	1980.0 27	1520.0 25	762.0 26	413.0 29	266.0 33	202.0 33	175.0 34	132.0 34	119.0 34
1947	5450.0 10	5570.0 9	4710.0 5	3100.0 5	2170.0 6	1350.0 6	980.0 6	769.0 6	540.0 8	350.0 8
1948	3800.0 19	2490.0 18	1760.0 18	1020.0 18	751.0 18	576.0 18	449.0 18	368.0 18	271.0 19	175.0 21
1949	1300.0 34	1070.0 33	666.0 33	485.0 32	339.0 32	286.0 30	234.0 31	214.0 30	186.0 29	150.0 25
1950	8280.0 4	7040.0 4	4340.0 7	3090.0 6	2870.0 5	2720.0 3	2110.0 3	1650.0 3	1280.0 2	767.0 2
1951	6250.0 9	4910.0 11	3050.0 12	2060.0 10	1490.0 12	847.0 13	602.0 13	470.0 14	339.0 15	317.0 10
1952	1080.0 35	685.0 35	377.0 35	316.0 35	231.0 34	188.0 34	177.0 34	177.0 33	154.0 33	120.0 33
1953	1680.0 33	1060.0 34	509.0 34	381.0 34	215.0 35	165.0 35	156.0 35	142.0 35	118.0 35	88.3 35
1954	4480.0 16	3960.0 16	2720.0 14	1930.0 13	1790.0 8	1070.0 8	765.0 9	602.0 11	431.0 12	310.0 12
1955	6410.0 7	6220.0 6	3730.0 9	1800.0 14	1200.0 13	930.0 12	694.0 12	573.0 13	535.0 9	311.0 11
1956	9150.0 3	8620.0 3	6540.0 3	4510.0 3	3340.0 4	1950.0 5	1340.0 5	1030.0 5	697.0 5	423.0 5
1957	6990.0 6	6560.0 5	5160.0 4	4740.0 2	4240.0 2	3140.0 2	2150.0 2	1690.0 2	1160.0 3	636.0 4
1958	5210.0 14	4550.0 12	3200.0 10	2170.0 8	1510.0 10	982.0 10	697.0 11	574.0 12	430.0 13	298.0 13
1959	4440.0 17	3730.0 17	1860.0 17	1020.0 19	644.0 20	420.0 20	342.0 19	298.0 20	230.0 24	146.0 29
1960	5760.0 11	5600.0 8	3880.0 8	2030.0 12	1080.0 15	613.0 17	503.0 17	396.0 17	279.0 17	235.0 16
1961	7100.0 5	5530.0 10	3060.0 11	2050.0 11	1490.0 11	939.0 11	744.0 10	636.0 9	547.0 7	415.0 6
1962	2570.0 27	2060.0 25	1390.0 23	798.0 24	488.0 25	349.0 24	276.0 24	324.0 19	255.0 20	161.0 23
1963	2670.0 26	2130.0 23	1390.0 24	729.0 28	436.0 28	324.0 28	258.0 28	230.0 27	185.0 30	129.0 32
1964	2910.0 24	2060.0 24	1550.0 20	950.0 20	501.0 24	328.0 27	258.0 29	226.0 28	241.0 22	149.0 27
1965	2210.0 30	1550.0 32	731.0 32	457.0 33	362.0 31	274.0 32	233.0 32	208.0 32	196.0 28	146.0 28
1966	4440.0 18	4300.0 14	3000.0 13	2150.0 9	1590.0 9	1040.0 9	796.0 7	622.0 10	474.0 11	291.0 14
1967	5280.0 13	4350.0 13	2430.0 15	1710.0 15	1200.0 14	711.0 14	545.0 15	651.0 8	484.0 10	345.0 9
1968	2100.0 31	1570.0 30	1200.0 27	1050.0 17	971.0 16	647.0 16	561.0 14	456.0 15	388.0 14	245.0 15
1969	3210.0 20	2470.0 21	1450.0 21	742.0 27	466.0 26	338.0 26	271.0 26	257.0 24	246.0 21	178.0 20
1970	2750.0 25	2000.0 26	1070.0 28	636.0 29	449.0 27	348.0 25	267.0 27	232.0 26	206.0 26	162.0 22
1971	5630.0 12	3940.0 15	1920.0 16	1440.0 16	906.0 17	679.0 15	524.0 16	420.0 16	314.0 16	186.0 18
1972	3200.0 21	2610.0 20	1410.0 22	768.0 25	630.0 21	354.0 23	290.0 23	233.0 25	169.0 31	150.0 26
1973	6250.0 8	5470.0 7	4430.0 6	2810.0 7	1970.0 7	1110.0 7	788.0 8	717.0 7	612.0 6	395.0 7
1974	2500.0 28	1730.0 29	1030.0 29	930.0 21	661.0 19	391.0 21	273.0 25	211.0 31	163.0 32	159.0 24

## 07313000 LITTLE BEAVER CREEK NEAR DUNCAN, OKLA.

LOCATION.--Lat 34°29'36", long 98°06'42", in NE 1/4 sec.11, T.1 S., R.9 W., on downstream side of right pier of bridge on county road, 0.8 mi (1.3 km) downstream from Stage Stand Creek, 8.2 mi (13.2 km) west of Duncan, and at mile 11.9 (19.1 km).

DRAINAGE AREA.--158 mi<sup>2</sup> (409 km<sup>2</sup>).

PERIOD OF RECORD.--October 1948 to December 1963.

AVERAGE DISCHARGE.--15 years (1949-63) 52.3 ft<sup>3</sup>/s (1.48 m<sup>3</sup>/s).

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

## LITTLE BEAVER CREEK NEAR DUNCAN, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	
YEAR	NUMBER OF DAYS IN CLASS																																		EFS_DAYS	
1949	154	4	3		6	5	7	14	7	15	8	6	35	45	20	12	4	10	4	4	4	2	2	2	3	2										8507.2
1950	20					1	5	18	32	61	62	20	20	20	24	14	5	8	5	8	4	2	2	2	2	2	3	1	2	2						25778.6
1951	2	14	5	2	7	1	3	6	3	4	16	51	110	60	22	18	10	12	5	7	3	4	3	1	2	4	1	2	2					1	35389.0	
1952	64	11	1		5	2	2	2	14	5	11	35	49	57	17	9	8	6	5	3	4	1	2		1	2	2		2						17945.2	
1953	41	4	9	8	14	19	18	23	29	45	25	26	17	7	15	6	5	2	4	2	2	2	1		2										8752.6	
1954	46	5	5	1	1	1	1	2	6	2	4	20	60	56	35	25	15	12	7	3	3	2	1	3	1	2	2	5	1				2		51579.2	
1955	147	17	10	12	9	14	20	16	17	15	16	9	12	9	7	7	6	3	3	2	2	1	3											1		16490.0
1956	115	9	6	9	16	10	12	10	44	40	24	33	9	6	3	2	4																		2562.9	
1957	119	6	7		1	2	7	13	14	30	25	21	13	11	10	2	4	13	15	10	7	6	8	2	4	5	4	2						2	43033.8	
1958	25	2	4	2	4	2	4	5	8	13	11	27	23	78	68	37	21	9	8	1	2	2	4	1											9602.5	
1959	63	9	5	3	4	5	11	11	15	21	48	42	31	23	9	8	4	3																	6142.8	
1960	22	2	2	3	5	6	3		4	5	9	14	19	35	66	55	69	17	8	2	4	6	2	2	2		1							1	1	18478.6
1961	11	5	3	3	2	1	4	3	2	8	26	41	36	92	48	28	17	5	10	4	6	3													11227.0	
1962																																				33562.5
1963	68	7	1	1	5	1	5	3	4	5	5	22	18	23	43	70	56	12	6	2	1	1	3											1		15128.6

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	962	5478	100.0	9	2.40	240	3765	68.7	18	57.0	92	424	7.7	27	1400	12	36	.6
1	0.10	95	4510	42.4	10	3.40	292	3525	64.3	19	81.0	63	332	6.1	28	1900	6	24	.4
2	0.20	59	4421	40.7	11	4.80	434	3233	59.0	20	110.0	53	269	4.9	29	2700	8	18	.3
3	0.30	44	4362	74.6	12	6.80	401	2799	51.1	21	160.0	48	216	3.9	30	5900	5	10	.1
4	0.40	77	4318	74.8	13	9.70	638	2558	43.0	22	230.0	34	168	3.1	31	5500	3	7	.1
5	0.60	62	4241	77.4	14	14.00	535	1720	31.4	23	350.0	35	154	2.4	32	7900	2	4	.0
6	0.80	101	4179	74.3	15	20.00	354	1185	21.6	24	470.0	24	99	1.8	33	11000	2	2	.0
7	1.20	116	4078	74.4	16	28.00	274	831	15.2	25	670.0	19	75	1.4	34				
8	1.70	197	3962	72.3	17	40.00	133	557	10.2	26	950.0	20	56	1.0					

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## LITTLE BEAVER CREEK NEAR DUNCAN, OKLAHOMA

YEAR	1	5	7	14	30	60	90	120	183	ANNUAL
1950	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.08 6	0.62 4	2.52 5	3.76 4	15.70 2
1951	2.90 14	3.15 14	3.70 14	4.26 14	6.41 13	10.20 13	10.90 12	11.10 10	16.70 9	75.30 11
1952	0.00 2	0.00 2	0.00 2	0.00 2	0.10 7	0.66 5	2.07 7	8.45 8	16.80 10	99.30 12
1953	0.00 3	0.00 3	0.00 3	0.00 3	0.00 2	0.00 1	0.00 1	0.10 2	0.89 2	42.90 6
1954	0.00 4	0.00 4	0.00 4	0.00 4	0.10 8	3.56 9	8.15 9	10.70 9	56.50 13	61.30 10
1955	0.00 5	0.60 5	0.00 5	0.00 5	0.00 5	0.00 2	0.00 2	0.01 1	0.01 1	44.40 8
1956	0.00 6	0.00 6	0.00 6	0.00 6	0.58 10	1.31 7	2.05 6	2.54 6	7.51 6	53.60 9
1957	0.00 7	0.00 7	0.00 7	0.00 7	0.00 4	0.00 3	0.00 3	0.80 3	5.18 5	6.67 1
1958	0.00 8	0.00 8	0.00 8	0.00 8	0.04 6	4.42 11	9.42 10	12.00 11	14.70 8	124.00 14
1959	0.00 9	0.00 9	0.00 9	0.00 9	0.00 5	0.20 4	0.70 5	1.72 4	3.00 3	18.80 3
1960	0.00 10	0.00 10	0.00 10	0.01 11	2.65 11	4.35 10	13.90 13	13.80 12	29.50 12	44.20 7
1961	0.00 11	0.00 11	0.00 11	0.00 10	0.17 9	1.74 8	2.63 8	6.86 7	10.30 7	32.50 5
1962	0.00 12	0.00 12	0.14 12	0.71 12	6.54 14	16.50 14	16.90 14	18.10 14	20.20 11	30.80 4
1963	1.70 13	1.73 13	1.77 13	2.34 13	4.29 12	8.93 12	10.20 11	18.00 13	54.30 14	115.00 13

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## LITTLE BEAVER CREEK NEAR DUNCAN, OKLAHOMA

YEAR	1	5	7	15	30	60	90	120	183	ANNUAL
1949	834.0 13	570.0 12	342.0 11	174.0 11	109.0 11	64.5 12	50.4 13	59.4 11	45.6 12	23.3 13
1950	5670.0 9	1790.0 7	826.0 7	409.0 8	598.0 6	280.0 5	215.0 4	176.0 4	134.0 4	70.6 5
1951	6920.0 5	3820.0 4	2090.0 3	1040.0 4	810.0 3	497.0 2	353.0 2	269.0 2	185.0 2	97.0 2
1952	3350.0 10	2150.0 6	1080.0 6	621.0 6	377.0 7	209.0 7	152.0 7	117.0 7	82.4 7	49.0 8
1953	3720.0 8	1500.0 10	568.0 10	267.0 10	176.0 10	92.9 10	78.3 10	64.9 10	46.3 11	24.0 12
1954	7350.0 4	3000.0 5	1650.0 5	917.0 5	489.0 5	261.0 6	179.0 6	136.0 6	95.4 6	86.0 4
1955	12800.0 1	4990.0 1	2170.0 2	1050.0 3	558.0 4	294.0 4	199.0 5	150.0 5	99.9 5	50.7 7
1956	641.0 15	284.0 15	127.0 15	59.7 15	30.2 15	17.3 15	12.7 15	10.5 15	8.2 15	7.0 15
1957	10600.0 3	4020.0 3	1910.0 4	1750.0 1	1030.0 1	665.0 1	452.0 1	342.0 1	228.0 1	118.0 1
1958	1450.0 11	598.0 11	293.0 12	166.0 12	105.0 12	78.1 11	67.0 11	55.2 12	41.8 13	26.3 11
1959	1000.0 12	355.0 14	158.0 14	78.2 14	69.6 14	46.2 14	33.0 14	29.6 14	29.5 14	16.8 14
1960	4110.0 7	1610.0 9	724.0 9	359.0 9	199.0 9	113.0 9	84.8 9	71.9 9	67.5 9	51.6 6
1961	794.0 14	363.0 13	185.0 13	104.0 13	83.7 13	55.6 13	55.2 12	49.8 13	46.8 10	30.8 10
1962	11200.0 2	4440.0 2	2510.0 1	1550.0 2	896.0 2	462.0 3	318.0 3	243.0 3	165.0 3	92.0 3
1963	4220.0 6	1660.0 8	732.0 8	422.0 7	231.0 8	139.0 8	100.0 8	80.0 8	75.8 8	41.4 9

## STATISTICS OF ANNUAL DISCHARGE FOR WATER YEARS, 1949-63

Units of annual Discharge	Mean	Standard Deviation	Coefficient of Variation	Skew Coefficient	First Order Serial Correlation Coefficient
CFS	52.3	33.4	0.64	0.59	-0.38
LOGS of CFS	1.617	0.334		-0.721	-0.350

## RED RIVER BASIN

07313500 BEAVER CREEK NEAR WAURIKA, OKLA.

LOCATION.--Lat 34°13'00", long 98°02'57", on north line of NW 1/4 NW 1/4 sec.16, T.4 S., R.8 W., Jefferson County, on left bank on downstream side of bridge on State Highway 5, 4.5 mi (7.2 km) northwest of Waurika, 6.2 mi (10.0 km) upstream from Cow Creek, and at mile 25.8 (41.5 km).

DRAINAGE AREA.--563 mi<sup>2</sup> (1,458 km<sup>2</sup>).

PERIOD OF RECORD.--June 1953 to September 1974.

AVERAGE DISCHARGE.--21 years (1954-74), 102 ft<sup>3</sup>/s (2.89 m<sup>3</sup>/s).

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

BEAVER CREEK NEAR WAURIKA, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34		
YEAR	NUMBER OF DAYS IN CLASS																																			CFS_DAYS	
1954	67						2	6	3		3	7	1	3	9	4	8	32	75	46	18	16	17	12	6	6	2	8	3	3	3	2				81305.6	
1955	113						25	15	16	5	10	12	40	30	15	9	7	8	8	8	8	3	7	5	7	5	4									64819.2	
1956	75						7	4	3	5	25	27	17	25	65	58	16	10	5	4	1	5		6	2	1	1	3	1							14078.8	
1957	76						5		7	4	4	17	24	35	23	21	20	14	13	10	10	11	14	8	9	5	6	11	8	5	2	2	1			127264.3	
1958											6	10	19	15	10	7	24	73	59	66	26	19	11	7	3	3	5	2								27145.9	
1959	22						5	7	13	6	7	9	13	32	62	75	31	19	17	15	6	5	5	4	2	3	6	1								16550.7	
1960	4									3	5	1	2	5	16	12	16	29	53	57	81	40	10	7	8	4	5	2	5	1						49317.4	
1961									1		5	7	5	6	5	21	42	47	96	50	23	20	9	7	5	6	7	3								32202.3	
1962									1	1	4	2	2			9	22	38	74	117	28	16	14	5	8	7	4	4	4	3		1		1		87552.7	
1963	45						3	3	5	8	9	5	4	3	5	19	22	8	29	114	45	15	6	2	6	2	3	3	1							28348.1	
1964	120						3	5	9	7	12	9	25	24	44	36	23	13	10	8	1	7	1	3	2	2	2									8223.2	
1965	64						3	5	8	2	11	5	6	9	12	28	96	47	18	13	9	6	6	5	3	5	1	3								17748.2	
1966	194						5	16	9	9	14	22	14	16	20	8	4	2	8	3	5	3	4	3	3	1	2									7199.7	
1967	59	6	4	12	18	31	07	22	8	13	20	12	16	13	4	8	6	3	7	4	5	3	1	4	1	2	1	2								11264.2	
1968	39	13	13	5	23	7	16	6	14	7	13	17	10	7	17	30	27	24	21	14	14	8	7	4	2	3	2	1			1	1				22488.9	
1969							2	8	1	27	15	15	11	15	10	30	46	45	42	23	22	14	5	10	9	7	4	2	2								51164.9
1970	79		1				1	1	1	2	4	1	19	35	25	67	63	30	13	5	4	3	3	1	2	1	1	1	2							12963.3	
1971	28	1			2	10	9	16	8	19	41	63	63	39	14	13	10	4	9	4	3	3			3	1	1	1								9350.8	
1972	83	1			1	3	1	4	5	7	11	14	19	37	30	69	30	13	12	5	6	4		7	2	2										10870.8	
1973	22									3	1			3	10	15	25	49	56	40	26	42	20	15	8	7	7	9	4	2	1					74611.9	
1974	10							1	2		3		5	4	47	6	11	50	123	41	22	10	8	5	6	5	2	3	1							27899.7	

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	1100	7670	100.0	9	0.50	89	6035	78.7	18	25.0	718	2635	34.4	27	1300	56	125	1.6
1	0.01	21	6570	85.7	10	0.70	212	5946	77.5	19	39.0	650	1917	25.0	28	2000	34	69	.8
2	0.02	17	6549	85.4	11	1.20	227	5734	74.8	20	61.0	362	1267	16.5	29	3200	18	35	.4
3	0.03	18	6532	85.2	12	1.80	316	5507	71.8	21	94.0	264	905	11.8	30	4900	7	17	.2
4	0.05	44	6514	84.9	13	2.80	366	5191	67.7	22	150.0	159	641	8.4	31	7600	6	10	.1
5	0.08	10	6470	84.4	14	4.30	475	4825	62.9	23	230.0	102	482	6.3	32	12000	2	4	.0
6	0.10	195	6460	84.2	15	6.70	491	4350	56.7	24	350.0	100	380	5.0	33	18000	2	2	.0
7	0.20	103	6265	81.7	16	10.00	599	3859	50.3	25	550.0	78	280	3.7	34				
8	0.30	127	6162	80.3	17	16.00	625	3260	42.5	26	850.0	77	202	2.6					

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## BEAVER CREEK NEAR MAURKA, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1955	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.07 1	130.00 15
1956	0.00 2	0.00 2	0.00 2	0.05 13	0.44 12	1.42 12	2.99 10	4.12 10	31.30 12	191.00 18
1957	0.00 3	0.00 3	0.00 3	0.00 2	0.00 2	0.00 2	0.06 4	2.02 6	12.60 8	30.70 4
1958	1.00 19	1.07 19	1.21 18	1.46 17	2.11 15	17.80 16	29.10 17	35.30 16	44.00 15	369.00 20
1959	0.00 4	0.00 4	0.00 4	0.00 3	0.04 10	0.77 10	2.44 9	3.37 9	5.15 6	49.10 9
1960	0.10 15	0.13 15	0.30 14	0.74 16	11.80 18	33.90 19	48.10 20	44.90 18	85.20 20	137.00 17
1961	0.00 5	0.00 5	0.30 15	0.63 15	3.73 16	9.89 15	20.10 15	34.50 15	40.60 14	72.20 10
1962	0.46 17	0.87 17	0.93 17	2.04 18	29.00 20	40.50 20	45.80 19	52.00 20	59.80 17	87.30 11
1963	0.50 18	1.03 18	1.43 19	3.62 19	9.54 17	20.50 17	22.30 16	42.20 17	77.90 19	259.00 19
1964	0.00 6	0.00 6	0.00 5	0.00 4	0.00 3	0.04 7	0.26 8	0.37 3	1.31 2	30.50 3
1965	0.00 7	0.00 7	0.00 6	0.00 5	0.00 4	0.07 8	5.75 12	10.20 12	35.30 13	44.50 8
1966	0.00 8	0.00 8	0.00 7	0.00 6	0.00 5	0.00 3	0.01 3	1.08 5	2.79 4	24.90 2
1967	0.00 9	0.00 9	0.00 8	0.00 7	0.00 6	0.01 6	0.07 5	0.08 2	2.46 3	18.80 1
1968	0.00 10	0.00 10	0.00 9	0.01 12	0.02 9	0.09 9	0.18 7	2.30 7	3.01 5	39.70 7
1969	0.00 11	0.00 11	0.00 10	0.00 8	0.05 11	0.94 11	7.01 13	19.30 14	55.40 16	106.00 13
1970	0.23 16	0.26 16	0.33 16	0.47 14	1.11 14	3.42 14	5.58 11	6.81 11	13.50 9	93.50 12
1971	0.00 12	0.00 12	0.00 11	0.00 9	0.00 7	0.00 4	0.08 6	2.81 8	6.16 7	31.70 5
1972	0.00 13	0.00 13	0.00 12	0.00 10	0.07 13	2.70 13	10.50 14	15.60 13	25.80 11	35.40 6
1973	0.00 14	0.00 14	0.00 13	0.00 11	0.00 8	0.00 5	0.00 2	0.74 4	23.20 10	121.00 14
1974	1.10 20	4.73 20	5.10 20	6.66 20	20.60 19	32.10 18	36.10 18	47.70 19	61.00 18	134.00 16

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## BEAVER CREEK NEAR MAURKA, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1954	8500.0 4	5460.0 4	3380.0 4	2490.0 4	1380.0 4	744.0 4	518.0 4	394.0 4	277.0 5	223.0 3
1955	22900.0 1	14900.0 1	6970.0 1	3440.0 3	1870.0 3	1000.0 3	682.0 3	513.0 3	350.0 3	178.0 5
1956	3010.0 10	1700.0 11	750.0 12	352.0 14	176.0 17	128.0 14	91.7 15	70.3 16	49.2 18	38.5 15
1957	17900.0 3	8380.0 3	4360.0 3	4090.0 1	2740.0 1	1990.0 1	1350.0 1	1020.0 1	680.0 1	349.0 1
1958	1970.0 15	1420.0 15	779.0 11	457.0 10	240.0 10	211.0 9	184.0 9	150.0 9	113.0 11	74.4 11
1959	1350.0 18	1050.0 18	500.0 18	265.0 19	233.0 13	144.0 12	111.0 13	97.2 12	85.2 13	45.3 14
1960	3820.0 8	2660.0 8	1350.0 8	654.0 8	356.0 8	262.0 8	261.0 7	232.0 7	189.0 7	135.0 7
1961	1680.0 17	1200.0 17	736.0 13	388.0 12	286.0 11	165.0 11	171.0 10	140.0 10	128.0 9	88.2 8
1962	18400.0 2	10400.0 2	6500.0 2	3440.0 2	2270.0 2	1180.0 2	813.0 2	624.0 2	424.0 2	240.0 2
1963	2400.0 12	1440.0 14	710.0 14	383.0 13	308.0 9	191.0 10	143.0 11	119.0 11	135.0 8	77.7 9
1964	1150.0 19	758.0 19	435.0 19	209.0 21	119.0 21	63.3 21	46.6 21	38.8 21	38.6 20	22.5 20
1965	1720.0 16	1230.0 16	605.0 17	294.0 18	234.0 12	124.0 15	89.8 16	71.5 15	59.8 15	48.6 13
1966	1120.0 20	755.0 20	432.0 20	307.0 17	156.0 20	84.1 20	56.1 20	43.2 20	36.6 21	19.7 21
1967	3250.0 9	1500.0 12	661.0 16	316.0 16	171.0 19	107.0 17	120.0 12	91.2 13	61.0 14	30.9 17
1968	5070.0 6	3350.0 7	1650.0 7	802.0 7	540.0 7	298.0 7	210.0 8	167.0 8	117.0 10	61.4 12
1969	4590.0 7	3940.0 5	2350.0 5	1440.0 5	759.0 5	445.0 6	356.0 6	296.0 6	229.0 6	140.0 6
1970	2410.0 11	1960.0 9	979.0 9	460.0 9	230.0 14	115.0 16	76.7 18	62.6 18	57.4 16	35.5 16
1971	2140.0 14	1480.0 13	702.0 15	343.0 15	174.0 18	105.0 18	77.0 17	66.8 17	45.0 19	25.6 19
1972	998.0 21	556.0 21	409.0 21	242.0 20	183.0 16	99.7 19	68.5 19	54.2 19	52.6 17	29.7 18
1973	5290.0 5	3890.0 6	1930.0 6	943.0 6	566.0 6	502.0 5	438.0 5	382.0 5	283.0 4	204.0 4
1974	2390.0 13	1890.0 10	900.0 10	435.0 11	218.0 15	140.0 13	95.0 14	83.6 14	85.5 12	76.4 10

## STATISTICS OF ANNUAL DISCHARGE FOR WATER YEARS, 1954-74

Units of annual Discharge	Mean	Standard Deviation	Coefficient of Variation	Skew Coefficient	First Order Serial Correlation Coefficient
CFS	102	89.7	0.88	1.36	-0.05
LOGS of CFS	1.856	0.375		0.235	0.140





LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## RED RIVER NEAR TERREL, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1939	56.00 5	58.70 5	63.70 2	73.40 2	80.00 2	113.00 4	155.00 6	200.00 10	367.00 9	2190.00 24
1940	46.00 1	46.00 1	46.90 1	46.20 1	64.60 1	81.00 1	93.80 1	107.00 1	155.00 4	743.00 2
1941	53.00 4	55.00 2	74.90 4	77.70 3	109.00 7	629.00 34	800.00 32	1050.00 32	1240.00 27	1520.00 15
1942	211.00 32	216.00 30	258.00 33	346.00 35	472.00 36	1040.00 36	1110.00 35	1430.00 35	6340.00 36	9640.00 36
1943	284.00 36	289.00 36	323.00 36	379.00 36	417.00 33	612.00 33	908.00 34	943.00 31	2340.00 33	3570.00 33
1944	47.00 2	67.30 5	73.70 3	86.10 7	112.00 10	139.00 10	157.00 8	176.00 7	268.00 7	1940.00 23
1945	105.00 19	114.00 19	137.00 20	179.00 23	366.00 29	539.00 31	629.00 30	752.00 29	1040.00 24	1860.00 22
1946	135.00 22	136.00 22	146.00 22	162.00 21	190.00 21	402.00 25	549.00 28	609.00 24	1940.00 32	2660.00 28
1947	130.00 23	146.00 23	153.00 23	161.00 20	166.00 16	358.00 20	507.00 20	1070.00 33	1300.00 29	1330.00 12
1948	67.00 7	75.00 7	80.40 7	91.50 10	110.00 8	154.00 11	226.00 13	301.00 14	496.00 14	3420.00 31
1949	62.00 6	76.70 10	81.10 9	83.40 5	96.40 3	126.00 6	155.00 7	154.00 5	268.00 8	1120.00 8
1950	140.00 24	152.00 24	169.00 24	206.00 25	289.00 25	402.00 26	515.00 27	684.00 27	756.00 17	1810.00 19
1951	194.00 29	194.00 29	200.00 26	214.00 26	240.00 22	426.00 27	438.00 23	503.00 21	869.00 20	3510.00 32
1952	187.00 27	195.00 26	204.00 24	228.00 28	240.00 22	257.00 17	269.00 16	283.00 13	390.00 10	3230.00 30
1953	72.00 8	76.70 6	87.40 11	92.40 11	94.70 5	112.00 3	124.00 3	126.00 2	139.00 1	836.00 6
1954	72.00 9	76.70 6	79.10 6	83.40 5	168.00 19	206.00 15	234.00 14	244.00 20	400.00 19	1400.00 13
1955	72.00 10	75.00 8	80.70 8	85.40 6	108.00 8	111.00 2	121.00 2	126.00 3	141.00 2	1740.00 18
1956	91.00 16	91.70 14	98.10 14	119.00 17	181.00 20	349.00 22	370.00 21	390.00 19	3020.00 35	3780.00 34
1957	50.00 3	60.30 4	78.40 5	90.30 9	97.40 4	125.00 5	144.00 10	257.00 12	428.00 11	833.00 5
1958	161.00 26	195.00 27	242.00 29	291.00 33	346.00 28	454.00 29	555.00 29	620.00 25	1160.00 26	6900.00 35
1959	106.00 17	103.00 17	110.00 17	114.00 16	114.00 11	130.00 8	142.00 5	154.00 6	171.00 5	1060.00 7
1960	105.00 18	106.00 18	120.00 18	164.00 22	443.00 34	807.00 35	1770.00 36	2090.00 36	2470.00 34	2750.00 29
1961	209.00 31	230.00 31	244.00 30	286.00 32	489.00 35	592.00 32	863.00 33	1260.00 34	1700.00 31	2480.00 27
1962	200.00 30	233.00 32	248.00 31	281.00 30	375.00 30	447.00 30	475.00 25	529.00 22	739.00 16	1420.00 14
1963	251.00 35	270.00 35	291.00 35	336.00 34	417.00 32	447.00 28	470.00 24	626.00 30	973.00 22	2260.00 25
1964	90.00 14	94.70 16	99.60 15	106.00 13	145.00 14	162.00 12	205.00 12	197.00 9	245.00 6	761.00 3
1965	90.00 15	94.00 15	97.70 13	108.00 14	137.00 13	206.00 16	251.00 15	325.00 15	771.00 18	791.00 4
1966	154.00 25	161.00 25	195.00 25	196.00 24	247.00 23	359.00 23	493.00 26	565.00 23	1450.00 30	1630.00 16
1967	123.00 21	128.00 20	135.00 19	141.00 18	155.00 17	171.00 14	172.00 9	178.00 8	456.00 12	1500.00 10
1968	119.00 20	131.00 21	138.00 21	142.00 19	148.00 15	165.00 13	204.00 11	235.00 11	494.00 13	1200.00 9
1969	243.00 34	250.00 34	262.00 34	278.00 29	316.00 26	379.00 24	730.00 31	703.00 28	955.00 21	1820.00 20
1970	192.00 28	196.00 28	208.00 27	219.00 27	248.00 24	294.00 18	325.00 18	354.00 16	648.00 15	1700.00 17
1971	80.00 11	83.30 11	83.70 10	89.70 8	110.00 9	128.00 7	131.00 4	137.00 4	152.00 3	473.00 1
1972	83.00 12	87.70 12	99.90 16	109.00 15	120.00 12	177.00 9	327.00 19	395.00 18	1110.00 25	1320.00 11
1973	89.00 13	90.70 15	93.70 12	105.00 12	154.00 16	297.00 19	305.00 17	377.00 17	1030.00 23	1820.00 21
1974	240.00 33	240.00 33	254.00 32	282.00 31	329.00 27	336.00 21	380.00 22	676.00 26	1270.00 28	2450.00 26

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## RED RIVER NEAR TERREL, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1939	40200.0 18	26500.0 22	14900.0 23	8670.0 23	4640.0 25	2950.0 28	2230.0 29	1870.0 30	1450.0 30	911.0 32
1940	15400.0 32	12700.0 32	8410.0 33	4360.0 33	3160.0 33	2760.0 29	2590.0 25	2270.0 22	1750.0 25	953.0 29
1941	16800.0 0	11000.0 2	8550.0 1	6020.0 1	4500.0 2	3300.0 2	2420.0 2	1800.0 2	1290.0 1	711.0 1
1942	7750.0 6	6200.0 6	4340.0 7	3290.0 5	2460.0 4	1640.0 4	1170.0 3	913.0 3	630.0 3	558.0 3
1943	3830.0 19	3100.0 19	2140.0 15	1540.0 13	1360.0 9	883.0 9	647.0 9	513.0 9	369.0 10	288.0 9
1944	3040.0 24	1700.0 29	1040.0 30	647.0 29	401.0 29	245.0 32	193.0 32	176.0 31	143.0 31	93.1 31
1945	4640.0 12	3200.0 18	1880.0 19	1200.0 17	802.0 16	762.0 11	584.0 11	499.0 10	434.0 8	300.0 8
1946	6380.0 10	4020.0 10	2330.0 12	1230.0 16	654.0 20	346.0 24	245.0 27	211.0 29	170.0 26	150.0 22
1947	7610.0 7	5900.0 7	4920.0 6	3960.0 5	2460.0 5	1530.0 5	1150.0 5	683.0 5	540.0 6	361.0 4
1948	1650.0 31	1140.0 33	895.0 32	582.0 32	350.0 32	318.0 25	243.0 28	218.0 27	188.0 23	120.0 25
1949	3210.0 23	2520.0 23	1880.0 20	1360.0 14	1170.0 11	710.0 13	493.0 14	349.0 14	319.0 14	184.0 17
1950	4480.0 14	3240.0 17	2100.0 16	1560.0 12	1130.0 12	985.0 7	854.0 6	736.0 6	615.0 4	340.0 5
1951	14300.0 2	12200.0 1	7200.0 2	3730.0 4	2730.0 3	1660.0 3	1160.0 4	892.0 4	607.0 5	346.0 6
1952	2870.0 26	2470.0 24	1380.0 24	920.0 22	582.0 22	378.0 22	272.0 21	213.0 21	151.0 20	93.0 30
1953	8990.0 36	7280.0 35	4150.0 36	2310.0 36	1540.0 36	1350.0 35	1250.0 35	1050.0 35	911.0 34	523.0 36
1954	7150.0 8	5700.0 8	3300.0 8	2080.0 8	1490.0 8	928.0 8	650.0 8	493.0 11	331.0 13	263.0 11
1955	9870.0 4	8590.0 3	4990.0 5	2640.0 7	1650.0 6	1130.0 6	794.0 7	606.0 7	454.0 7	237.0 12
1956	10600.0 5	7820.0 4	5040.0 4	2760.0 6	1550.0 7	839.0 10	576.0 12	442.0 13	302.0 15	207.0 15
1957	6680.0 3	7590.0 5	5840.0 3	4460.0 2	4600.0 1	3580.0 1	2450.0 1	1870.0 1	1250.0 2	653.0 2
1958	1510.0 33	1410.0 31	1040.0 31	783.0 26	555.0 23	359.0 23	321.0 20	273.0 20	210.0 21	160.0 20
1959	2690.0 27	1960.0 27	1360.0 25	977.0 21	690.0 18	556.0 16	466.0 16	375.0 16	272.0 16	145.0 23
1960	4450.0 15	3750.0 13	2390.0 11	1230.0 15	649.0 21	383.0 21	373.0 19	327.0 18	279.0 16	226.0 13
1961	6570.0 9	5490.0 9	3250.0 9	1980.0 9	1100.0 13	647.0 15	493.0 15	394.0 14	348.0 12	268.0 10
1962	4520.0 13	3470.0 11	2470.0 10	1960.0 10	1290.0 10	728.0 12	545.0 13	448.0 12	355.0 11	215.0 14
1963	2580.0 28	1710.0 30	1130.0 27	664.0 24	384.0 30	246.0 31	207.0 30	168.0 30	127.0 32	109.0 26
1964	965.0 35	722.0 36	545.0 34	334.0 34	173.0 35	132.0 36	93.0 36	82.0 36	82.0 36	56.0 35
1965	3220.0 22	2750.0 20	1630.0 21	811.0 24	427.0 28	258.0 30	203.0 31	216.0 26	182.0 24	129.0 24
1966	4790.0 11	3810.0 12	2020.0 17	1060.0 19	663.0 19	390.0 19	271.0 22	217.0 25	216.0 20	161.0 18
1967	3000.0 25	2070.0 26	1260.0 26	779.0 27	457.0 26	306.0 27	250.0 26	229.0 21	166.0 27	105.0 28
1968	3800.0 20	3290.0 16	1920.0 18	1040.0 20	794.0 17	485.0 18	380.0 18	325.0 19	262.0 19	160.0 19
1969	4250.0 17	3700.0 14	2250.0 13	1600.0 11	910.0 15	547.0 17	407.0 17	357.0 17	275.0 17	196.0 16
1970	1170.0 34	811.0 34	439.0 35	273.0 35	179.0 34	171.0 34	140.0 34	121.0 34	90.0 35	71.0 34
1971	2510.0 30	2090.0 25	1060.0 28	637.0 31	435.0 31	384.0 20	264.0 23	225.0 23	152.0 28	83.0 33
1972	2530.0 29	1900.0 28	1040.0 29	638.0 30	384.0 31	329.0 33	190.0 33	157.0 33	123.0 33	107.0 27
1973	4400.0 16	3670.0 15	2140.0 14	1180.0 16	927.0 14	696.0 14	621.0 10	521.0 8	405.0 9	313.0 7
1974	3290.0 21	2670.0 21	1570.0 22	800.0 25	477.0 24	313.0 26	263.0 24	212.0 28	169.0 22	156.0 21

## MONTHLY DURATION TABLE

RED RIVER NEAR TERKAL, OKLAHOMA

PERIOD 1938-1974

CLASS LIMIT	TOTAL PERCENT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
0.00	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
46.00	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
59.00	99.8	99.8	100.0	98.3	99.7	100.0	100.0	100.0	100.0	100.0	99.8	100.0	100.0
75.00	99.4	98.3	100.0	97.4	99.5	100.0	99.7	100.0	100.0	99.7	99.2	99.8	99.2
96.00	97.5	96.5	99.0	94.9	98.8	99.7	99.4	100.0	100.0	97.0	93.0	95.8	95.6
120.00	93.5	90.1	96.0	91.4	96.3	96.7	99.3	99.5	99.6	92.3	84.8	85.8	88.0
160.00	87.5	82.8	90.1	86.1	90.7	95.5	98.7	96.2	92.9	83.2	77.6	75.4	80.0
200.00	81.8	75.4	85.4	79.6	86.7	93.4	98.1	89.3	81.8	73.2	72.2	72.6	72.8
250.00	75.2	71.0	76.0	70.3	78.8	91.5	95.0	81.4	70.6	65.0	65.2	68.3	68.0
320.00	66.6	57.3	60.9	60.4	69.3	86.5	89.4	74.0	58.7	55.5	60.8	63.1	62.2
410.00	57.5	44.9	51.3	51.0	59.4	74.5	84.4	65.8	47.0	47.7	54.5	55.5	47.4
530.00	47.6	24.4	37.1	41.7	50.5	72.4	79.0	56.8	36.4	42.2	49.8	43.8	30.5
670.00	40.4	23.0	28.1	33.5	42.0	67.4	73.8	47.7	26.8	37.5	42.8	35.1	23.1
860.00	34.7	17.3	21.8	28.0	37.3	62.9	68.0	34.6	22.8	33.5	36.1	29.0	18.3
1100.00	29.2	12.8	15.6	21.9	31.9	55.4	61.8	32.6	17.3	29.0	32.1	23.1	15.1
1400.00	24.5	8.4	10.7	16.8	27.4	49.1	56.2	26.8	13.1	25.0	27.8	18.9	12.3
1800.00	20.4	4.9	7.7	12.5	22.1	44.9	49.9	21.6	10.2	22.0	22.8	15.0	9.2
2300.00	17.0	3.5	6.1	9.6	16.7	34.2	42.4	16.7	8.7	16.9	20.6	11.4	6.8
2900.00	14.4	2.5	4.8	7.4	15.9	35.2	36.6	13.5	7.7	16.0	17.5	9.4	5.2
3700.00	11.9	1.5	4.0	6.2	13.3	31.0	30.8	10.1	6.1	13.1	13.4	7.4	4.0
4700.00	9.7	1.2	2.9	4.4	11.4	26.2	26.4	7.1	5.3	10.3	11.4	6.3	3.0
6000.00	7.8	0.8	2.3	3.6	9.4	23.1	20.6	5.8	3.8	7.7	9.6	4.5	2.1
7700.00	6.1	0.4	1.4	2.7	7.7	19.7	16.0	3.7	3.0	5.8	8.2	2.6	1.3
9800.00	4.7	0.1	0.7	1.4	6.5	16.5	12.3	2.3	2.1	4.3	6.7	1.8	0.8
13000.00	3.3	0.1	0.2	0.6	4.4	13.3	9.0	1.3	1.2	2.7	5.0	1.0	0.4
16000.00	2.4	0.0	0.0	0.0	3.2	10.3	6.8	0.7	0.7	1.9	3.9	0.9	0.3
20000.00	2.0	0.0	0.0	0.0	2.5	9.1	5.4	0.3	0.5	1.4	3.6	0.8	0.1
26000.00	1.4	0.0	0.0	0.0	1.8	7.5	3.4	0.0	0.0	0.6	3.1	0.6	0.0
33000.00	1.0	0.0	0.0	0.0	1.1	5.5	2.5	0.0	0.0	0.2	2.3	0.5	0.0
42000.00	0.6	0.0	0.0	0.0	0.5	3.5	1.2	0.0	0.0	0.1	1.3	0.3	0.0
54000.00	0.4	0.0	0.0	0.0	0.1	2.3	0.9	0.0	0.0	0.0	0.8	0.1	0.0
69000.00	0.2	0.0	0.0	0.0	0.0	1.0	0.5	0.0	0.0	0.0	0.4	0.0	0.0
88000.00	0.1	0.0	0.0	0.0	0.0	0.4	0.2	0.0	0.0	0.0	0.1	0.0	0.0
110000.00	0.0	0.0	0.0	0.0	0.0	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0
140000.00	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0

## STATISTICS OF ANNUAL DISCHARGE FOR WATER YEARS, 1939-74

Units of annual Discharge	Mean	Standard Deviation	Coefficient of Variation	Skew Coefficient	First Order Serial Correlation Coefficient
CFS	2,175	1,567	0.72	1.75	0.18
LOGS of CFS	3.246	0.281		0.248	0.189



## RED RIVER BASIN

07315900 WALNUT BAYOU NEAR BURNEYVILLE, OKLA.

LOCATION.--Lat 33°56'30", long 97°18'20", in NW 1/4 NE 1/4 sec.21, T.7 S., R.1 W., near right bank on downstream side of bridge on State Highway 32, 0.8 mi (1.3 km) downstream from Simon Creek, 2.5 mi (4.0 km) northwest of Burneyville, and at mile 6.5 (10.5 km).

DRAINAGE AREA.--314 mi<sup>2</sup> (813 km<sup>2</sup>).

PERIOD OF RECORD.--October 1960 to December 1963, October 1968 to September 1971.

AVERAGE DISCHARGE.--6 years (1961-62, 1969-71), 38.8 ft<sup>3</sup>/s (1.10 m<sup>3</sup>/s).

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

WALNUT BAYOU NEAR BURNEYVILLE, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS	
1961	65							4	10	15	10	9	12	11	32	17	36	32	23	23	17	5	11	7	1	5	3	7	5	1	1	1				12266.9
1962	37							5	3	7	10	8	11	16	14	18	65	47	22	22	18	15	7	8	8	4	6	3	3	3	3	2				16848.1
1963	105							5	6	5		6	4	11	24	33	39	39	30	18	11	8	7	1	1	2	5	1	1	2	1				7786.7	
1969	18	1	2	2	7	8	2	29	6	4	9	19	7	6	7	22	27	32	14	26	20	22	17	17	11	10	5	5	3	1	3		3		21749.1	
1970	41	6	4	4	11	7	2	6	15	12	11	13	18	9	7	18	46	26	19	23	13	13	11	6	5	3	6	4	4	2	1	2			2	19787.4
1971	29	5	1	5	3	11	3	13	3	2	2	11	3	10	24	62	73	49	19	14	4	5	7	2	1	1	1	2	1			1			6487.3	

CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT
0	0.00	295	2190	100.0	9	0.30	45	1710	78.1	18	9.2	127	651	29.7	27	280	22	68	3.1					
1	0.01	10	1895	86.5	10	0.40	39	1665	76.0	19	13.0	126	524	23.9	28	410	17	46	2.1					
2	0.02	7	1885	86.1	11	0.60	66	1626	74.2	20	20.0	83	398	18.2	29	600	9	29	1.3					
3	0.03	11	1878	85.8	12	0.90	55	1560	71.2	21	29.0	68	315	14.4	30	880	8	20	.9					
4	0.04	21	1867	85.3	13	1.40	63	1505	68.7	22	42.0	60	247	11.3	31	1300	6	12	.5					
5	0.06	26	1846	84.3	14	2.00	108	1442	65.8	23	61.0	41	147	8.5	32	1900	4	6	.2					
6	0.09	7	1820	83.1	15	2.90	170	1334	60.9	24	90.0	27	146	6.7	33	2700	2	2	.0					
7	0.10	62	1815	82.8	16	4.30	288	1164	53.2	25	130.0	25	119	5.4	34									
8	0.20	41	1751	80.0	17	6.30	225	876	40.0	26	190.0	26	94	4.3										

## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

WALNUT BAYOU NEAR BURNEYVILLE, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1962	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.05 2	2.03 3	7.54 3	18.50 2	31.40 1
1963	0.00 2	0.00 2	0.00 2	0.07 4	1.21 4	5.71 4	5.95 4	14.10 4	33.40 4	42.90 2
1970	0.00 3	0.00 3	0.00 3	0.01 3	0.09 3	0.23 3	0.61 2	6.06 1	4.40 1	50.20 3
1971	0.00 4	0.00 4	0.00 4	0.00 2	0.01 2	0.02 1	0.21 1	6.76 2	29.40 3	54.70 4

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

WALNUT BAYOU NEAR BURNEYVILLE, OKLAHOMA

YEAR	1		3		7		15		30		60		90		120		185		ANNUAL	
1961	1610.0	6	794.0	6	421.0	6	221.0	6	124.0	6	72.7	6	70.2	4	56.7	4	49.2	4	33.6	4
1962	1700.0	4	1070.0	4	475.0	4	299.0	3	210.0	3	122.0	3	86.8	3	72.5	3	52.7	3	46.2	3
1963	1681.0	5	998.0	5	457.0	5	253.0	5	162.0	4	90.8	4	63.1	5	49.0	5	38.0	5	21.3	5
1969	2270.0	3	2080.0	1	1100.0	1	616.0	1	355.0	1	217.0	1	185.0	1	153.0	1	109.0	1	59.6	1
1970	3130.0	1	1640.0	2	854.0	2	524.0	2	277.0	2	172.0	2	131.0	2	105.0	2	79.9	2	54.2	2
1971	2630.0	2	1130.0	3	571.0	3	273.0	4	142.0	5	74.0	5	51.8	6	40.6	6	29.3	6	17.8	6

## 311

07316000 RED RIVER NEAR GAINESVILLE, TEX.

LOCATION.--Lat 33°43'40", long 97°09'35", in SW 1/4 sec.36, T.9 S., R.1 E., Love County, Okla., near center of span on downstream side of bridge on U.S. Highway 77, 0.2 mi (0.3 km) downstream from Gulf, Colorado and Santa Fe Railway Co. bridge, 5.0 mi (8.0 km) downstream from Fish Creek, 7.0 mi (11.0 km) north of Gainesville, and at mile 791.5 (1,273.5 km).

DRAINAGE AREA.--30,782 mi<sup>2</sup> (79,725 km<sup>2</sup>) of which 5,936 mi<sup>2</sup> (15,374 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD.--May 1936 to September 1974.

AVERAGE DISCHARGE.--38 years (1937-74), 2,726 ft<sup>3</sup>/s (77.2 m<sup>3</sup>/s).

REMARKS.--Flow slightly regulated by Lake Kemp, in Texas, since 1943 by Lake Altus in Oklahoma, since 1946 by Lake Kickapoo, and since 1967 by Lake Arrowhead and Moss Lake, also in Texas.

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

RED RIVER NEAR GAINESVILLE, TEXAS

[illegible]

CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT
0	0.00	0	13879	100.0	9	320.00	10536	74.5	9	2900.00	512	2554	18.4	27	25000	84	272	1.9	
1	48.00	11	13879	100.0	10	420.00	13068	80.9	19	3700.00	377	2042	14.7	28	32000	66	188	1.3	
2	61.00	19	13868	99.9	11	540.00	1123	7979	77.5	20	4700.00	322	1665	12.0	29	41000	54	122	0.8
3	78.00	98	13849	99.8	12	690.00	981	6856	49.4	21	6000.00	280	1338	9.6	30	53000	34	68	0.4
4	99.00	392	13753	99.1	13	870.00	864	5875	42.3	22	7600.00	257	1058	7.8	31	67000	16	34	0.2
5	130.00	470	13361	96.3	14	1100.00	760	5011	36.1	23	9700.00	151	801	5.8	32	85000	11	18	0.1
6	160.00	729	12891	92.9	15	1400.00	607	4251	30.6	24	12000.00	189	650	4.7	33	110000	6	7	0.0
7	200.00	944	12162	87.6	16	1800.00	580	3644	26.3	25	16000.00	112	461	3.3	34	140000	1	1	
8	260.00	882	11218	80.8	17	2300.00	510	3064	22.1	26	20000.00	77	349	2.5					



## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## RED RIVER NEAR GAINESVILLE, TEXAS

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1938	220.00 25	223.00 25	225.00 25	241.00 25	302.00 22	426.00 21	672.00 28	1060.00 29	1570.00 28	3140.00 27
1939	100.00 9	100.00 9	102.00 9	107.00 8	125.00 7	179.00 9	198.00 9	241.00 9	403.00 9	2750.00 26
1940	48.00 1	48.00 1	48.00 1	60.90 1	79.80 1	99.10 1	109.00 1	131.00 1	175.00 2	832.00 3
1941	85.00 2	90.70 5	110.00 10	116.00 11	170.00 15	707.00 34	935.00 32	1460.00 35	1750.00 30	2450.00 20
1942	382.00 36	393.00 36	461.00 36	520.00 37	1130.00 37	1350.00 37	1400.00 36	1790.00 36	8750.00 37	11800.00 37
1943	436.00 37	459.00 37	472.00 37	506.00 36	576.00 36	784.00 35	1190.00 35	1180.00 32	2640.00 33	4970.00 35
1944	134.00 17	134.00 17	136.00 17	137.00 15	153.00 10	186.00 12	238.00 11	243.00 10	335.00 8	2560.00 21
1945	180.00 23	182.00 23	186.00 21	232.00 22	494.00 33	554.00 31	665.00 27	949.00 28	1160.00 23	2580.00 23
1946	197.00 24	204.00 24	218.00 24	236.00 24	315.00 24	513.00 26	1070.00 34	1240.00 33	3390.00 36	4000.00 32
1947	179.00 22	179.00 22	190.00 22	202.00 21	224.00 20	418.00 20	488.00 20	1120.00 31	1420.00 26	1780.00 14
1948	117.00 14	121.00 14	127.00 14	136.00 14	153.00 11	179.00 10	247.00 13	359.00 13	576.00 14	3700.00 30
1949	85.00 3	85.70 2	92.60 4	98.70 5	117.00 5	148.00 5	162.00 4	161.00 3	288.00 7	1420.00 9
1950	246.00 26	249.00 26	262.00 26	292.00 27	389.00 26	465.00 23	721.00 29	933.00 27	1030.00 19	2150.00 16
1951	282.00 32	283.00 32	291.00 31	306.00 31	517.00 34	543.00 29	560.00 25	653.00 21	1140.00 22	4580.00 34
1952	282.00 33	282.00 31	286.00 30	294.00 28	305.00 23	339.00 18	340.00 15	363.00 14	515.00 11	4000.00 31
1953	100.00 10	100.00 10	100.00 8	101.00 7	105.00 4	118.00 2	135.00 2	139.00 2	145.00 1	1040.00 6
1954	90.00 6	91.30 6	93.30 5	99.20 6	191.00 19	233.00 15	278.00 14	488.00 19	983.00 16	1570.00 12
1955	93.00 8	94.30 8	98.40 7	108.00 9	125.00 6	142.00 4	149.00 3	162.00 4	177.00 3	2160.00 17
1956	121.00 15	125.00 15	132.00 15	142.00 16	180.00 17	416.00 19	435.00 19	476.00 18	3230.00 35	4120.00 33
1957	86.00 4	87.70 3	88.60 2	90.40 2	96.50 2	119.00 3	192.00 7	329.00 12	522.00 12	918.00 4
1958	280.00 31	297.00 33	339.00 33	410.00 35	454.00 30	677.00 33	831.00 30	890.00 24	1480.00 27	7920.00 36
1959	129.00 16	134.00 16	136.00 16	145.00 17	164.00 13	181.00 11	190.00 6	201.00 7	212.00 4	1310.00 8
1960	149.00 18	157.00 18	164.00 19	182.00 20	528.00 35	832.00 36	1840.00 37	2850.00 37	2850.00 34	3380.00 28
1961	264.00 29	267.00 29	277.00 29	297.00 29	479.00 32	607.00 32	929.00 31	1410.00 34	1900.00 31	2730.00 24
1962	252.00 28	255.00 27	264.00 27	301.00 30	451.00 29	552.00 30	539.00 22	718.00 23	1000.00 17	1780.00 13
1963	272.00 30	281.00 30	308.00 32	371.00 32	449.00 28	515.00 27	540.00 23	1100.00 30	1350.00 25	2750.00 25
1964	90.00 7	91.30 7	94.30 6	98.00 4	150.00 8	173.00 7	211.00 10	196.00 6	235.00 5	788.00 1
1965	86.00 5	88.70 4	91.70 3	94.30 3	102.00 3	233.00 16	409.00 18	440.00 16	981.00 15	1030.00 5
1966	173.00 21	176.00 21	194.00 23	235.00 23	288.00 21	466.00 24	652.00 26	714.00 22	1580.00 29	1920.00 15
1967	158.00 20	159.00 19	162.00 18	163.00 18	169.00 14	188.00 13	193.00 8	207.00 8	562.00 13	1540.00 11
1968	152.00 19	164.00 20	166.00 20	171.00 19	184.00 18	196.00 14	240.00 12	266.00 11	496.00 10	1550.00 11
1969	324.00 34	338.00 34	352.00 34	371.00 33	399.00 27	523.00 28	959.00 33	913.00 25	1120.00 21	2560.00 22
1970	246.00 27	255.00 28	274.00 28	286.00 26	341.00 25	441.00 22	496.00 21	577.00 20	1060.00 20	2230.00 19
1971	105.00 12	111.00 13	113.00 12	116.00 10	154.00 12	170.00 6	170.00 5	174.00 5	276.00 6	801.00 2
1972	105.00 13	106.00 12	116.00 13	122.00 12	153.00 9	178.00 8	393.00 17	394.00 15	1220.00 24	1230.00 7
1973	104.00 11	105.00 11	111.00 11	130.00 13	175.00 16	336.00 17	346.00 16	451.00 17	1030.00 18	2180.00 18
1974	346.00 35	349.00 35	359.00 35	383.00 34	457.00 31	489.00 25	552.00 24	922.00 26	1990.00 32	3420.00 29

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## RED RIVER NEAR GAINESVILLE, TEXAS

YEAR	1	5	7	15	30	60	90	120	183	ANNUAL
1937	46400.0 17	40900.0 16	23300.0 18	15700.0 18	9540.0 20	5710.0 21	4330.0 22	3830.0 23	3040.0 21	2160.0 21
1938	61400.0 10	43700.0 14	29300.0 15	17800.0 17	16000.0 10	11900.0 9	10600.0 7	9290.0 7	7230.0 6	4110.0 7
1939	36500.0 25	24400.0 26	14400.0 29	8900.0 28	4820.0 30	3070.0 31	2330.0 32	2010.0 33	1610.0 32	1010.0 35
1940	30900.0 28	21600.0 28	12200.0 31	7810.0 31	5830.0 28	5320.0 23	4470.0 21	3880.0 22	2910.0 22	1540.0 27
1941	154000.0 1	123000.0 1	93200.0 1	68200.0 1	50000.0 2	36800.0 2	27500.0 2	21100.0 2	14800.0 1	8360.0 1
1942	138000.0 2	115000.0 2	73400.0 2	40300.0 4	35000.0 3	23000.0 3	16300.0 3	12600.0 3	8750.0 3	8050.0 2
1943	42700.0 21	37800.0 17	24400.0 17	20400.0 13	17100.0 8	11200.0 11	8310.0 10	6570.0 11	4700.0 11	3450.0 10
1944	23700.0 30	17500.0 31	11300.0 32	7040.0 32	4390.0 32	2680.0 34	2300.0 33	2400.0 30	1870.0 31	1150.0 34
1945	45400.0 18	34900.0 19	31200.0 14	20300.0 14	14900.0 12	12600.0 8	9690.0 8	7970.0 8	6580.0 7	4190.0 6
1946	79500.0 7	65500.0 7	40900.0 9	22000.0 10	11600.0 19	6100.0 19	4230.0 23	3910.0 21	3310.0 19	2510.0 17
1947	67400.0 9	59300.0 9	51000.0 7	41400.0 3	25600.0 5	16000.0 5	12200.0 5	9340.0 6	6500.0 8	4040.0 9
1948	21300.0 32	15500.0 32	12300.0 30	6520.0 29	5750.0 29	4190.0 27	3400.0 27	2910.0 26	2510.0 27	1560.0 26
1949	37400.0 24	28100.0 23	20500.0 22	15300.0 19	12900.0 14	7770.0 15	5420.0 18	4320.0 19	3530.0 18	2090.0 22
1950	46600.0 16	33900.0 21	21900.0 21	20500.0 12	14600.0 13	13800.0 6	11700.0 6	9830.0 5	8060.0 4	4550.0 4
1951	138400.0 3	113000.0 3	70800.0 3	37800.0 5	33100.0 4	20500.0 4	14400.0 4	11000.0 4	7530.0 5	4300.0 5
1952	30700.0 29	24000.0 27	15200.0 27	10900.0 24	6900.0 24	4790.0 24	3360.0 28	2670.0 28	1890.0 30	1160.0 32
1953	9120.0 38	6810.0 38	4460.0 38	3040.0 38	1890.0 38	1560.0 37	1440.0 37	1280.0 37	1150.0 37	651.0 38
1954	72000.0 8	65000.0 6	41000.0 6	24900.0 8	18300.0 6	11500.0 10	8050.0 12	6110.0 12	4090.0 13	3090.0 11
1955	42900.0 6	34600.0 5	25100.0 5	28300.0 7	18100.0 7	13000.0 7	9030.0 9	6880.0 10	5020.0 10	2630.0 14
1956	99900.0 4	76500.0 6	51000.0 6	26800.0 6	16200.0 9	8850.0 13	6110.0 14	4700.0 17	3230.0 20	2180.0 20
1957	96000.0 5	93700.0 4	54200.0 4	50200.0 2	50200.0 1	40300.0 1	27900.0 1	21300.0 1	14300.0 2	7480.0 3
1958	20600.0 33	19100.0 30	16000.0 25	10300.0 27	7440.0 22	4770.0 25	4030.0 24	3410.0 24	2600.0 25	2000.0 24
1959	31400.0 27	21000.0 29	15200.0 28	10700.0 25	7430.0 23	5990.0 20	4930.0 20	3940.0 20	2850.0 23	1530.0 28
1960	54700.0 12	52800.0 11	33700.0 10	17900.0 16	9470.0 21	5530.0 22	5310.0 19	4790.0 15	3910.0 14	2920.0 13
1961	60500.0 11	53500.0 10	52100.0 12	20800.0 11	11800.0 18	7080.0 18	5440.0 17	4350.0 18	3900.0 15	3040.0 12
1962	47600.0 15	43500.0 15	33100.0 11	22900.0 9	15000.0 11	8540.0 14	6420.0 13	5570.0 13	4170.0 12	2590.0 15
1963	23100.0 31	14800.0 33	10600.0 33	6510.0 33	4030.0 33	2660.0 35	2160.0 34	1760.0 34	1420.0 34	1290.0 30
1964	11500.0 37	7070.0 37	7220.0 37	4440.0 37	2340.0 37	1440.0 38	1010.0 38	1080.0 38	981.0 38	654.0 37
1965	34200.0 26	27200.0 24	15600.0 26	7830.0 30	4810.0 31	3820.0 30	2870.0 29	2520.0 29	2260.0 28	1670.0 25
1966	42900.0 20	34200.0 20	18200.0 23	11000.0 23	6860.0 25	3990.0 29	2780.0 30	2240.0 31	2520.0 26	2040.0 23
1967	38000.0 22	25000.0 25	16600.0 24	10600.0 26	6050.0 27	4190.0 28	3420.0 25	2930.0 25	2080.0 29	1320.0 29
1968	43000.0 19	37700.0 16	22400.0 19	12500.0 21	11900.0 15	7190.0 17	5510.0 16	4740.0 16	3720.0 16	2210.0 19
1969	51600.0 13	48800.0 12	51200.0 13	20100.0 15	11800.0 16	7230.0 16	5950.0 15	5120.0 14	3690.0 17	2560.0 16
1970	16400.0 36	13800.0 34	8340.0 35	5200.0 35	3300.0 36	3020.0 32	2380.0 31	2070.0 32	1540.0 33	1190.0 31
1971	17100.0 35	12100.0 36	7420.0 36	4850.0 36	3430.0 35	2910.0 33	2000.0 36	1760.0 35	1220.0 36	746.0 36
1972	17600.0 34	13800.0 35	5430.0 34	3470.0 34	2220.0 36	2220.0 36	2120.0 35	1730.0 36	1300.0 35	1150.0 33
1973	50000.0 14	46700.0 13	27200.0 16	15100.0 20	11800.0 17	8930.0 12	8240.0 11	7010.0 9	5510.0 9	4090.0 8
1974	37400.0 23	33100.0 22	22200.0 20	11700.0 22	6330.0 26	4380.0 26	3410.0 26	2790.0 27	2670.0 24	2320.0 18

## RED RIVER BASIN

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## 07316500 WASHITA RIVER NEAR CHEYENNE, OKLA.

LOCATION.--Lat 35°37'35", long 99°40'05", in SE 1/4 sec.5, T.13 N., R.23 W., Roger Mills County, near left bank on downstream side of pier of bridge on U.S. Highway 283, 0.5 mi (0.8 km) downstream from Sergeant Major Creek, 1.0 mi (1.6 km) north of Cheyenne, 5.2 mi (8.4 km) upstream from Dead Indian Creek, and at mile 543.9 (875.1 km).

DRAINAGE AREA.--794 mi<sup>2</sup> (2,056 km<sup>2</sup>).

PERIOD OF RECORD.--October 1937 to September 1974. Statistical summaries for this station are divided into unregulated and regulated periods.

AVERAGE DISCHARGE.--23 years (1938-60), 41.7 cfs (1.18 m<sup>3</sup>/s); 14 years (1961-74), 12.6 ft<sup>3</sup>/s (0.357 m<sup>3</sup>/s).

REMARKS.--Some regulation by numerous flood-retarding structures.

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

## WASHITA RIVER NEAR CHEYENNE, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	
YEAR	NUMBER OF DAYS IN CLASS																																			CFS_DAYS
1938	58	1						1		1	2	2	35	123	37	1	3	11	16	12	43	6	2	2	3	1	1	1								17909.9
1939	178		4	1	3	9	2	3	10	9	9	35	13	16	17	12	10	8	5	7	3	1	1	1	2	4	1	1								7067.0
1940	327	1		1			1	4		1	1	2	1	2		5	3	3	4	2	3	2	1	2												1806.6
1941	132	7	1			6	10	11	3	16	8	14	5	11	15	9	12	17	10	11	13	6	8	10	12	7	2	5	1	1		1	1			36363.7
1942					1	3	7	2	1	2	4	4	5	24	24	15	38	95	66	21	9	9	10	2	6	3	7	1	3	2	1					32608.5
1943	71	1			1	1	1	2	5	3		9	8	20	15	52	64	56	25	11	5	3	2	2	4	1	1									21150.9
1944	108			1	7	11	6	2	1	3	6	5	3	11	11	15	40	76	28	14	4	3	5	3	2	1										9826.2
1945	85	1	1				2	2		4	3	3	40	7	28	24	88	50	12	2	2	2	1	1	3	1	1	1		1						11391.9
1946	91	4	12	20	2	13	6	5	3	4	5	16	17	18	46	54	18	8	10	2		1	1	2	2	2	2		1							8302.8
1947	65												1		9	12	137	59	1		3	30		14	1	31	1					1				24202.0
1948	174		1		1	1	2	17	4	16	24	24	11	25	8	14	13	8	10	6	1		1	1	1	1	1		1							6663.6
1949	45	2	1	1	1	2	5	5	7	7	9	16	16	54	14	8	20	32	28	26	18	12	7	8	4	2	1	2	2	4	2	3	2	1		44479.1
1950	13					3		1	5	4	3	13	24	60	58	91	18	28	12	5	4	9	5	5	2			2								15626.7
1951	33										2	3	6	18	17	55	116	42	17	9	8	8	6	4	7	2	3	2	2	3	1	1				31718.2
1952	105	1	1	1	1	2	1			2	2	5	10	9	11	60	67	65	16	3	1															6316.5
1953	244	2	3	1	3	1	7	6	3	20	14	14	13	8	7	4	6	2	2		2	1			1				1							2703.4
1954	177	13	10	1	3	8	5	6	17	22	18	19	7	1	1	4	6	3	7	5	6	4	5	3	3	4	4	1					1	1		19926.1
1955	259	3	4			4	2	2	4	4	5	7	8	6	3	10	8	9	6	2	3	1	1				2	2								6754.6
1956	205	4	1		1	1	1	3	3	7	26	31	26	22	7	4	8	6	2	3	2	1	1					1								2563.1
1957	257				2	1	2	1	1	1	2	4	7	7	4	3	7	4	9	6	20	8	9	3	1	4	1		1							15361.9
1958	211		1		1	1	4	5	2	5	9	34	31	16	5	8	8	3	3	4	3	4	4	2	1											5181.9
1959	118	1	2	7	2	6	3	10	9	18	10	13	32	57	18	8	7	5	9	9	8	1	2	3	3	1			1	1			1			11382.9
1960	27	4	4	4	1	11	20	22	18	10	5	5	2	6	10	37	51	40	28	29	14	3	9	6												11242.8

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	2983	8401	100.0	9	2.00	156	4897	58.3	18	40.0	379	1347	16.0	27	800	19	64	.7
1	0.10	45	5418	64.5	10	2.80	167	4741	56.4	19	56.0	253	968	11.5	28	1100	16	45	.5
2	0.20	45	5373	64.0	11	3.90	234	4574	54.4	20	77.0	213	715	8.5	29	1500	13	29	.3
3	0.30	39	5328	63.4	12	5.40	300	4340	51.7	21	110.0	101	502	6.0	30	2200	7	16	.1
4	0.40	27	5289	63.0	13	7.50	500	4040	48.1	22	150.0	103	401	4.8	31	3000	6	9	.1
5	0.50	81	5262	62.6	14	11.00	380	3540	42.1	23	210.0	71	298	3.5	32	4200	2	3	.0
6	0.70	86	5181	61.7	15	15.00	556	3160	37.6	24	290.0	93	227	2.7	33	5900	1	1	.0
7	1.00	108	5095	60.6	16	20.00	692	2604	31.0	25	410.0	36	134	1.6	34				
8	1.40	90	4987	59.4	17	29.00	565	1912	22.8	26	570.0	34	98	1.2					

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## WASHITA RIVER NEAR CHEYENNE, OKLAHOMA

YEAR	1	5	7	14	30	60	90	120	183	ANNUAL
1939	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	2.53 8	46.90 16
1940	0.00 2	0.00 2	0.00 2	0.00 2	0.00 2	0.00 2	0.00 2	0.00 2	0.00 1	16.70 6
1941	0.00 3	0.00 3	0.00 3	0.00 3	0.00 3	0.00 3	0.32 11	1.19 11	3.07 11	6.54 3
1942	0.00 4	0.00 4	0.01 20	0.57 20	2.38 20	22.60 22	31.50 22	36.00 21	69.70 21	135.00 22
1943	0.40 22	0.57 22	1.19 22	2.86 22	17.60 22	21.30 21	23.80 21	49.20 22	72.80 22	92.80 20
1944	0.00 5	0.00 5	0.00 4	0.00 4	0.00 4	0.75 13	0.50 12	1.05 10	5.57 12	27.00 9
1945	0.00 6	0.00 6	0.00 5	0.00 5	0.57 18	9.56 18	12.90 19	17.40 19	21.00 18	31.80 11
1946	0.00 7	0.00 7	0.00 6	0.00 6	0.00 5	0.85 14	3.29 14	4.15 13	7.65 13	21.90 8
1947	0.00 8	0.00 8	0.00 7	0.00 7	0.00 6	12.00 19	8.14 17	16.90 18	32.90 20	35.80 12
1948	0.00 9	0.00 9	0.00 8	0.00 8	0.00 7	0.00 4	0.00 3	0.00 3	0.58 4	52.10 17
1949	0.00 10	0.00 10	0.00 9	0.00 9	0.00 8	0.46 12	6.97 16	7.52 16	11.10 14	27.50 10
1950	0.00 11	0.00 11	0.00 10	0.00 10	0.62 19	5.14 16	6.05 15	7.28 15	11.20 15	116.00 21
1951	0.00 12	0.00 12	0.21 21	1.56 21	4.53 21	17.70 20	19.60 20	20.80 20	24.00 19	46.60 15
1952	0.00 13	0.00 13	0.00 11	0.00 11	0.00 9	7.10 17	10.90 18	12.20 17	15.80 17	86.50 19
1953	0.00 14	0.00 14	0.00 12	0.00 12	0.00 10	0.00 5	0.00 4	0.00 4	0.00 2	5.88 2
1954	0.00 15	0.00 15	0.00 13	0.00 13	0.00 11	0.00 6	0.02 8	0.41 8	2.46 7	8.77 4
1955	0.00 16	0.00 16	0.00 14	0.00 14	0.00 12	0.00 7	0.00 5	0.00 5	0.00 3	52.90 18
1956	0.00 17	0.00 17	0.00 15	0.00 15	0.00 13	0.00 8	0.07 9	1.41 12	2.69 10	20.70 7
1957	0.00 18	0.00 18	0.00 16	0.00 16	0.00 14	0.00 9	0.00 6	0.00 6	0.52 5	5.02 1
1958	0.00 19	0.00 19	0.00 17	0.00 17	0.00 15	0.00 10	0.00 7	0.00 7	1.23 6	43.00 14
1959	0.00 20	0.00 20	0.00 18	0.00 18	0.00 16	0.00 11	0.10 10	0.69 9	2.59 9	15.00 5
1960	0.00 21	0.00 21	0.00 19	0.00 19	0.24 17	1.18 15	1.94 13	5.23 14	13.00 16	40.80 13

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## WASHITA RIVER NEAR CHEYENNE, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1938	2090.0 9	1800.0 5	1070.0 5	571.0 5	332.0 7	209.0 8	170.0 7	135.0 7	42.1 7	49.1 8
1939	1010.0 16	654.0 14	405.0 12	212.0 13	115.0 16	83.2 14	66.1 13	51.4 14	38.3 16	19.4 16
1940	262.0 21	106.0 22	71.1 22	33.2 23	25.8 23	15.2 23	11.0 23	8.7 23	9.9 23	4.9 23
1941	7050.0 1	2970.0 2	1550.0 1	934.0 2	809.0 2	495.0 2	369.0 2	287.0 2	196.0 2	99.6 2
1942	2340.0 7	1540.0 6	936.0 6	512.0 6	366.0 5	210.0 7	187.0 5	148.0 5	110.0 4	89.3 3
1943	1220.0 15	942.0 11	754.0 7	425.0 7	250.0 9	153.0 9	125.0 9	106.0 9	86.3 8	57.9 6
1944	428.0 20	216.0 21	136.0 20	74.1 20	71.7 19	63.7 18	55.6 16	49.8 16	41.9 13	26.8 14
1945	2040.0 10	702.0 12	302.0 14	141.0 17	70.6 20	52.3 19	44.6 19	42.5 17	40.2 14	31.2 12
1946	1370.0 13	523.0 17	267.0 15	141.0 15	126.0 13	88.1 13	61.9 15	51.1 15	39.6 15	22.7 15
1947	2840.0 6	979.0 10	549.0 9	350.0 10	350.0 6	245.0 5	187.0 6	145.0 6	101.0 6	66.3 5
1948	2320.0 8	990.0 9	459.0 11	222.0 12	123.0 14	77.9 15	52.9 17	40.2 18	33.8 18	18.2 18
1949	5650.0 3	2930.0 3	1430.0 3	1050.0 1	1000.0 1	596.0 1	431.0 1	342.0 1	254.0 1	122.0 1
1950	1380.0 12	663.0 13	336.0 13	184.0 14	155.0 12	111.0 11	97.7 10	93.0 10	69.2 10	42.8 9
1951	3840.0 4	2400.0 4	1340.0 4	788.0 3	717.0 3	421.0 3	289.0 3	224.0 3	156.0 3	86.9 4
1952	124.0 23	85.3 23	66.9 23	50.5 21	40.5 21	34.7 21	33.3 20	32.7 20	29.1 19	17.3 19
1953	1290.0 14	562.0 15	267.0 16	129.0 18	72.7 17	38.9 20	27.8 21	21.7 21	14.8 21	7.4 21
1954	5860.0 2	3270.0 1	1510.0 2	783.0 4	535.0 4	320.0 4	214.0 4	162.0 4	106.0 5	54.6 7
1955	924.0 17	538.0 16	262.0 17	230.0 11	163.0 11	104.0 12	71.8 12	55.6 13	36.9 17	18.5 17
1956	615.0 18	234.0 20	100.0 21	46.7 22	30.4 22	17.9 22	18.8 22	16.1 22	13.2 22	7.0 22
1957	1900.0 11	1040.0 8	526.0 10	411.0 8	307.0 8	231.0 6	169.0 8	127.0 8	83.4 9	42.1 10
1958	443.0 19	330.0 18	201.0 19	125.0 19	72.6 18	66.2 17	45.9 18	37.4 19	26.8 20	14.2 20
1959	3110.0 5	1430.0 7	704.0 8	367.0 9	245.0 10	136.0 10	95.7 11	82.9 11	59.3 11	31.2 11
1960	274.0 22	244.0 19	207.0 18	153.0 16	113.0 15	73.4 16	62.7 14	58.9 12	50.5 12	30.7 13

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

WASHITA RIVER NEAR CHEYENNE, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	
YEAR	NUMBER OF DAYS IN CLASS																																			CFS_DAYS
1962	70					5	3	7	1	2	6	5	13	11	16	27	28	30	56	48	14	8	4	4	1	4	1	1								6058.0
1963	106					1	5	1	3	3	4	5	6	6	7	37	24	24	70	45	12	3	1	1												3922.1
1964	229					2	3	2	3	3	2	2	12	33	35	14	9	6		5	3	2	4													1085.5
1965	95					5	1	4			2	4	6	14	22	39	28	45	18	31	16	7	6	7	8			1	2	2	1		1			6606.4
1966	113	3	1	1	1	4	1	1	1	3	3	4	6	6	2	5	6	37	77	53	24	8	1	1	1	1	1							1		5597.3
1967	156			1	2	2	10	3	8	5	6	15	13	32	60	11	6	5	3	7	6	5	1	2	1	1	2	1						1		2838.2
1968	30		2	1	2	2	10	16	10	2	4	2	8	27	22	15	34	27	27	69	35	9	3	4	3									1	1	5421.2
1969	91	2		1	2		3	1	2		1	1	1	2	5	15	20	46	61	72	25	10	2	1											1	5566.2
1970	179	1					2	1	4	2	4	2	5	26	16	33	26	9	14	16	11	5	4	2	1			1		1						2294.7
1971	240	1					2	1	6	2	7	6	13	13	30	17	13	3	3	2		1	1		1		1		1	1						1599.9
1972	183	4			3		1	2	11	10	19	16	10	28	31	14	12	9	3	4	2	1			1	2										952.2
1973	192		2		5		1	6	1	1	4	11	18	13	2	5	6	4	12	17	14	13	19	12	6	1										3772.7
1974	108			1				1	8	1	2		4	25	27	26	24	33	43	21	14	12	7	4	3		1									3299.5

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	1792	4748	100.0	9	0.50	28	2761	58.2	18	10.0	266	1330	28.0	27	230	6	19	.4					
1	0.01	11	2956	62.3	10	0.60	60	2733	57.6	19	14.0	431	1064	22.4	28	330	5	13	.2					
2	0.02	5	2945	62.0	11	0.90	72	2673	56.3	20	20.0	321	633	13.3	29	460	4	8	.1					
3	0.04	5	2940	61.9	12	1.30	93	2601	54.8	21	29.0	131	312	6.6	30	650	2	4	.0					
4	0.05	15	2935	61.8	13	1.80	216	2508	52.8	22	41.0	72	181	3.8	31	920	2	2	.0					
5	0.08	4	2920	61.5	14	2.50	268	2294	48.3	23	58.0	43	109	2.3	32									
6	0.10	46	2916	61.4	15	3.60	225	2224	42.6	24	81.0	31	66	1.4	33									
7	0.20	44	2870	60.4	16	5.10	247	1799	37.9	25	120.0	6	35	0.7	34									
8	0.30	65	2826	59.5	17	7.20	222	1552	32.7	26	160.0	10	29	0.6										

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

WASHITA RIVER NEAR CHEYENNE, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1963	0.00 1	0.00 1	0.00 1	0.00 1	0.09 12	6.19 12	9.47 12	10.40 11	13.60 11	18.20 10
1964	0.00 2	0.00 2	0.00 2	0.00 2	0.00 2	0.00 1	0.00 1	0.00 1	0.00 1	4.42 4
1965	0.00 3	0.00 3	0.00 3	0.00 3	0.00 2	0.00 2	0.00 2	0.00 2	1.31 7	4.94 5
1966	0.00 4	0.00 4	0.00 4	0.00 4	0.00 3	0.43 9	4.64 11	13.40 12	18.10 12	26.30 12
1967	0.00 5	0.00 5	0.00 5	0.00 5	0.00 4	0.00 3	0.00 3	0.00 3	0.00 2	2.81 1
1968	0.00 6	0.00 6	0.00 6	0.00 6	0.00 5	1.38 10	2.26 9	3.59 9	5.64 9	11.80 8
1969	0.00 7	0.00 7	0.00 7	0.00 7	0.05 11	4.43 11	3.17 10	7.98 10	12.40 10	20.40 11
1970	0.00 8	0.00 8	0.00 8	0.00 8	0.00 6	0.00 4	0.00 4	0.01 7	0.39 6	7.04 7
1971	0.00 9	0.00 9	0.00 9	0.00 9	0.00 7	0.00 5	0.00 5	0.00 4	0.10 5	5.28 6
1972	0.00 10	0.00 10	0.00 10	0.00 10	0.00 8	0.00 6	0.00 6	0.00 5	0.06 4	4.30 3
1973	0.00 11	0.00 11	0.00 11	0.00 11	0.00 9	0.00 7	0.00 7	0.00 6	0.00 3	3.34 2
1974	0.00 12	0.00 12	0.00 12	0.00 12	0.00 10	0.00 8	1.22 8	1.68 8	3.48 8	14.50 9

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

WASHITA RIVER NEAR CHEYENNE, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1962	424.0 7	236.0 6	142.0 6	70.3 8	42.0 8	29.4 7	26.9 6	24.1 6	22.1 4	16.6 2
1963	272.0 9	145.0 9	80.0 10	49.4 11	26.6 11	22.4 10	19.7 10	18.8 9	17.6 7	10.7 6
1964	73.0 13	65.3 13	44.3 13	22.6 12	14.2 12	9.4 12	8.7 12	7.5 12	5.9 12	3.0 12
1965	921.0 2	614.0 1	346.0 1	197.0 1	136.0 1	77.6 1	56.0 1	45.8 1	32.3 1	18.1 1
1966	879.0 3	425.0 3	215.0 3	111.0 3	61.7 4	39.3 4	33.9 4	30.7 3	27.2 2	15.3 3
1967	867.0 4	364.0 4	168.0 5	83.4 5	42.8 6	22.5 9	21.4 9	19.4 8	14.6 9	7.8 9
1968	491.0 1	524.0 2	257.0 2	147.0 2	63.4 2	49.9 2	37.2 3	32.4 2	26.4 3	14.8 5
1969	520.0 6	232.0 7	124.0 7	68.7 4	41.4 9	29.0 8	28.0 5	25.6 5	21.3 5	15.2 4
1970	366.0 8	210.0 8	124.0 8	76.0 6	46.0 5	30.5 6	21.8 8	17.8 10	12.4 10	6.3 10
1971	525.0 5	343.0 5	174.0 4	84.1 4	42.1 7	21.1 11	14.6 11	11.9 11	8.7 11	4.4 11
1972	152.0 11	96.3 11	44.6 12	21.1 13	10.6 13	9.3 13	7.2 13	5.9 13	5.0 13	2.6 13
1973	136.0 12	104.0 10	83.7 9	72.1 7	61.8 3	49.5 3	36.6 2	29.8 4	20.1 6	10.3 7
1974	163.0 10	92.3 12	70.0 11	51.0 10	35.4 10	31.3 5	24.8 7	21.0 7	16.0 8	9.0 8

## RED RIVER BASIN

07319500 SANDSTONE CREEK NEAR BERLIN, OKLA.

LOCATION.--Lat 35°30'26", long 99°33'27", on west line of NW 1/4 NW 1/4 sec.20, T.12 N., R.22 W., Beckham County, on left bank 50 ft (15.2 m) downstream from county road bridge, 5.5 mi (8.8 km) northeast of Berlin.

DRAINAGE AREA.--44.9 mi<sup>2</sup> (116.3 km<sup>2</sup>) of which 4.0 mi<sup>2</sup> (10.4 km<sup>2</sup>) is noncontributing.

PERIOD OF RECORD.--October 1952 to September 1972.

AVERAGE DISCHARGE.--20 years (1953-72), 3.67 ft<sup>3</sup>/s (0.104 m<sup>3</sup>/s).

REMARKS.--Flow from 38.7 mi<sup>2</sup> (100.2 km<sup>2</sup>) regulated by 11 flood-retarding structures.

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

SANDSTONE CREEK NEAR BERLIN, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS
1953	351							2	2		2		2				2		1		2		1		5	2	4	2	1	2	4	2			70.0
1954	167							62	43	12	5	7	7	2	3	1	5	8	6	4	2	4	5	5	2	4	2	3						3130.2	
1955	3							5	39	37	15	52	83	62	19	13	7	3	4	4	3	1	3	2	5	2	2	3							1234.2
1956	56							10	23	7		24	35	98	69	29	2	6	3	1	1		1		1										564.6
1957	13							13	53	29	84	40	46	7	4	8	7	23	6	6	7	7	2	3	1	1	1	1	1	3					2242.0
1958	1							23	11	21	13	5	45	128	75	22	6	2	3	2	3	2	1	1		1				1					864.1
1959								1	7	1	13	62	178	24	24	18	5	8	3	2	2	3	1	1	3	3			1	4					3101.0
1960													18	21	53	93	43	37	47	30	10	4	2	2	5										2777.2
1961													3	35	40	27	105	100	17	14	9	4	2	2		4	2	1							2993.2
1962													11	44	108	36	19	16	11	10	6	4		5	2			3							2005.0
1963										7	11	53	12	42	23	33	143	29	9	1	1									1					1155.2
1964	8							5	21	26	24	60	85	99	10	6	6	3	5	1	1	3		1		2									623.9
1965									12	9	46	38	112	78	36	10	5	2	2	4	2	2	1	4		2		2							1103.0
1966				4		1	4	11	8	11	5	42	26	25	42	74	93	12	3		1	1	1			1									913.9
1967	49	1			1	4	1	22	21	42	9	170	31	5	2	1	1		1	2			1	1											284.2
1968							3	2	3	11	33	24	86	74	35	47	26	2	6	3	3	1	3		1										624.8
1969									10	11	17	2	34	23	24	27	44	22	37	100	9	1	1	1		1			1						1579.6
1970	80		1	1	2	4		11	4	10	4	24	68	96	15	32	6	2	2	1	1					1									456.6
1971	54	1	3	4	8	14		59	43	97	12	30	4	10	8	6	4	1		1	1	1	1		1	1		2						452.0	
1972									2	27	11	22	51	71	14	19	25	14	2	4			2	2											631.6

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	782	7305	100.0	9	0.30	419	5988	82.0	18	5.9	328	743	10.2	27	110	7	30	.4
1	0.01	2	6523	89.3	10	0.50	176	5569	76.2	19	8.2	119	415	5.7	28	140	8	23	.3
2	0.02	8	6521	89.3	11	0.60	652	5393	73.8	20	11.0	86	296	4.1	29	200	12	15	.2
3	0.03	6	6513	89.2	12	0.90	686	4541	62.2	21	15.0	50	210	2.9	30	270	2	3	.0
4	0.04	18	6507	89.1	13	1.20	1055	3855	52.8	22	21.0	44	160	2.2	31	380	1	1	.0
5	0.06	25	6489	88.8	14	1.70	663	2800	38.3	23	29.0	19	116	1.6	32				
6	0.09	0	6464	88.5	15	2.30	571	2137	29.3	24	40.0	29	97	1.3	33				
7	0.10	223	6464	88.5	16	3.10	516	1566	21.4	25	55.0	21	68	0.9	34				
8	0.20	253	6241	85.4	17	4.30	307	1050	14.4	26	76.0	17	47	0.6					



LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## SANDSTONE CREEK NEAR BERLIN, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1954	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.01 3	0.05 3	0.08 2	0.38 4	0.51 1
1955	0.00 2	0.00 2	0.00 2	0.00 2	0.00 2	0.00 1	0.07 4	0.15 3	0.36 3	8.66 18
1956	0.20 13	0.20 13	0.20 13	0.20 10	0.25 9	0.58 10	1.46 14	1.49 14	1.50 13	3.83 11
1957	0.00 3	0.00 3	0.00 3	0.00 3	0.00 3	0.01 4	0.04 2	0.15 4	0.29 2	0.99 4
1958	0.10 10	0.10 9	0.16 11	0.29 12	0.50 12	0.70 13	0.86 12	1.06 12	1.25 12	6.65 16
1959	0.00 4	0.10 10	0.10 9	0.10 9	0.61 14	0.80 14	0.83 11	0.95 11	1.10 11	2.17 10
1960	0.30 14	0.37 15	0.73 16	1.22 16	1.37 16	2.93 18	3.73 17	5.61 19	5.07 18	12.40 19
1961	1.20 17	1.23 17	1.40 17	1.59 17	1.64 17	2.09 17	4.80 19	5.29 18	5.55 19	6.85 17
1962	1.60 18	1.73 18	1.77 18	1.79 18	1.81 18	1.92 16	2.10 15	2.19 15	2.43 15	5.82 14
1963	1.80 19	1.80 19	1.80 19	1.86 19	2.06 19	3.76 19	3.91 18	4.02 17	4.09 17	6.10 15
1964	0.30 15	0.30 14	0.33 14	0.46 14	0.55 13	0.59 11	0.60 9	0.65 9	0.77 7	1.64 7
1965	0.00 5	0.00 4	0.00 4	0.05 6	0.18 8	0.35 7	0.40 6	0.46 6	0.79 8	1.93 9
1966	0.50 16	0.57 16	0.60 15	0.64 15	0.72 15	1.06 15	2.85 16	3.26 16	3.62 16	4.17 12
1967	0.02 9	0.02 8	0.04 8	0.08 8	0.16 7	0.44 8	0.59 8	0.61 8	0.64 6	0.95 3
1968	0.00 6	0.00 5	0.00 5	0.00 4	0.00 4	0.05 5	0.16 5	0.32 5	0.53 5	1.04 5
1969	0.12 12	0.13 12	0.19 12	0.25 11	0.42 10	0.63 12	1.41 13	1.48 13	2.13 14	4.47 13
1970	0.11 11	0.12 11	0.14 10	0.34 13	0.48 11	0.56 9	0.65 10	0.73 10	0.86 9	1.64 8
1971	0.00 7	0.00 6	0.00 6	0.00 5	0.00 5	0.00 2	0.02 1	0.02 1	0.05 1	0.76 2
1972	0.00 8	0.00 7	0.00 7	0.07 7	0.14 6	0.21 6	0.54 7	0.57 7	0.90 10	1.60 6

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## SANDSTONE CREEK NEAR BERLIN, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1953	28.0 19	11.4 20	5.0 20	2.3 20	1.2 20	0.9 20	0.7 20	0.5 20	0.4 20	0.2 20
1954	377.0 2	270.0 2	212.0 2	114.0 2	80.8 1	49.9 1	33.4 1	25.1 1	16.5 1	8.6 1
1955	86.0 12	60.0 6	55.3 5	31.6 5	24.1 5	14.7 5	10.7 6	8.4 7	6.0 8	3.4 8
1956	48.0 16	21.4 17	9.8 17	5.3 18	4.2 18	3.3 18	2.7 18	2.5 18	2.2 16	1.5 16
1957	259.0 3	203.0 3	113.0 3	76.2 3	56.0 3	51.9 3	22.7 3	17.3 3	11.7 3	6.1 5
1958	182.0 5	78.7 7	38.2 8	19.8 9	12.6 9	7.0 10	5.2 10	4.3 11	3.4 12	2.4 12
1959	740.0 1	406.0 1	274.0 1	147.0 1	75.6 2	40.2 2	28.2 2	22.0 2	15.7 2	8.5 2
1960	212.0 4	103.0 5	44.2 6	25.0 6	15.5 7	13.2 6	11.6 5	11.3 5	9.4 5	7.6 4
1961	166.0 6	116.0 4	99.6 4	54.2 4	30.7 4	19.4 4	15.0 4	12.7 4	10.3 4	8.2 3
1962	120.0 9	65.0 10	31.3 10	22.1 7	17.0 6	13.1 7	9.9 7	9.5 6	8.1 6	5.5 6
1963	141.0 8	50.7 12	22.8 12	11.4 13	6.8 14	4.4 15	4.3 13	4.2 12	4.1 10	3.2 9
1964	67.0 14	38.3 13	21.6 13	11.0 14	6.9 13	5.9 11	4.4 12	3.6 13	2.8 13	1.7 13
1965	98.0 10	74.0 9	38.6 7	19.7 10	14.7 8	8.2 8	6.3 9	5.9 9	4.5 9	3.0 10
1966	68.0 13	37.3 14	20.3 14	11.6 12	7.3 12	5.3 13	4.6 11	4.3 10	3.8 11	2.5 11
1967	32.0 18	12.3 18	5.9 19	3.2 19	2.1 19	1.9 19	1.5 19	1.3 19	1.1 19	0.8 19
1968	41.0 17	22.0 16	12.2 16	7.2 16	5.7 15	3.5 17	3.0 17	2.8 16	2.4 14	1.7 14
1969	147.0 7	55.8 11	25.4 11	12.8 11	9.2 11	7.9 9	7.6 8	7.5 8	6.8 7	4.3 7
1970	59.0 15	27.1 15	14.2 15	8.1 15	5.6 16	4.0 16	3.1 16	2.6 17	2.1 18	1.3 17
1971	96.0 11	76.3 8	36.4 9	20.1 8	10.6 10	5.5 12	4.0 14	3.1 15	2.2 17	1.2 18
1972	25.0 20	11.8 19	7.2 18	5.7 17	5.0 17	4.5 14	3.6 15	3.2 14	2.4 15	1.7 15

## RED RIVER BASIN

## 07322500 EAST BRANCH SANDSTONE CREEK NEAR ELK CITY, OKLA.

LOCATION.--Lat 35°31'20", long 99°31'48", on south line sec.9, T.12 N., R.22 W., Roger Mills County, near left bank on downstream side of pier on county road bridge, 7.5 mi (12.1 km) northeast of Berlin and 10 mi (16.1 km) northwest of Elk City.

DRAINAGE AREA.--23.0 mi<sup>2</sup> (59.6 km<sup>2</sup>).

PERIOD OF RECORD.--April 1951 to September 1972.

AVERAGE DISCHARGE.--21 years (1952-72), 1.53 ft<sup>3</sup>/s (0.043 m<sup>3</sup>/s).

REMARKS.--Flow from 18.2 mi<sup>2</sup> (47.1 km<sup>2</sup>) regulated by 7 flood-retarding structures.

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

## EAST BRANCH SANDSTONE CREEK NEAR ELK CITY, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34		
YEAR																																					CFS_DAYS
1952	355							4	2	1			2			1	1																			9.4	
1953	355							3	1					1		1	1						1	2												55.8	
1954	331							8	3	4		1	1	1	1		2	1	1			2	2	1	1	5										289.6	
1955	341							2	1	2		1			1	3		1	2	3	4	1	1	1			1									192.6	
1956	177							16	10	39	27	78	13			1	1								1	2			1							250.2	
1957	125							39	51	46	3	16	8	5	6	10	13	12	7	3	6	4	3	1	4	1	2									739.7	
1958	46							29	31	31	15	24	128	43	10	1	1		2	1	1	1	1	1		1										323.4	
1959	7							18	10	27	106	115	32	7	8	4	3	3	2	2	4	1	3	1	4	4	1	1	1	1						1208.2	
1960													2	3	60	52	37	56	56	38	23	14	14	5	2	2	2	1		1						2272.5	
1961														1	37	20	22	69	47	74	56	14	5	12	3	3			1	1						2094.3	
1962													11	132	151	35	8	9	7	4	4			2	1											840.5	
1963	74							14	8	7	5	20	15	51	52	103	8	4	1	1																520.5	
1964	114							18	23	47	33	99	20	1	2	3		3				1	1	1												185.4	
1965	83							16	11	58	20	99	40	5	4	3	5	2	6	4	1	2	1	1	2	1			1							505.0	
1966	99	4	5	1			1	1	2	5	22	24	35	39	104	17		2				1	1					1								354.4	
1967	167	25	5	3	3		5	5	58	71	10	3	1					2	1	1			2	1	2											155.9	
1968	197	1	6				19	14	18	26	21	1	14	12	3	3	3	3	2	3	3	5	1	2	1	1	2			1	1					749.6	
1969	57		1				2	2	22	2	6	2	3	6	37	134	79	3	3	1	3		1													598.4	
1970	107						1	1	9	12	35	4	34	108	49	2	1	1						1												226.3	
1971	185		1	2	7	10	11	31	44	53	5	3	7	1			2					2	1													88.2	
1972	165		3				3	6	31	63	82	3		1	2	1	2	2	1																	90.9	

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	2985	7671	100.0	9	0.30	491	3826	49.9	18	4.9	164	509	6.6	27	70	4	9	.1
1	0.01	30	4686	61.1	10	0.50	251	3335	43.5	19	6.6	118	345	4.5	28	94	3	5	.0
2	0.02	21	4656	60.7	11	0.60	543	3084	40.2	20	8.8	65	227	3.0	29	130	1	2	.0
3	0.03	6	4635	60.4	12	0.80	446	2541	33.1	21	12.0	43	162	2.1	30	170	1	1	.0
4	0.04	10	4629	60.3	13	1.10	482	2095	27.3	22	16.0	44	119	1.6	31				
5	0.05	41	4619	60.2	14	1.50	472	1613	21.0	23	21.0	20	75	1.0	32				
6	0.07	40	4578	59.7	15	2.00	324	1141	14.9	24	29.0	24	55	0.7	33				
7	0.10	338	4538	59.2	16	2.70	160	817	10.7	25	39.0	12	31	0.4	34				
8	0.20	374	4200	54.8	17	3.60	148	657	8.6	26	52.0	10	19	0.2					

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## EAST BRANCH SANDSTONE CREEK NEAR ELK CITY, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1952	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.01 5	0.01 5	0.15 2
1953	0.00 2	0.00 2	0.00 2	0.00 2	0.00 2	0.00 2	0.00 2	0.00 1	0.00 1	0.02 1
1954	0.00 3	0.00 3	0.00 3	0.00 3	0.00 3	0.00 3	0.00 3	0.00 2	0.30 11	0.31 6
1955	0.00 4	0.00 4	0.00 4	0.00 4	0.00 4	0.00 4	0.00 4	0.00 3	0.00 2	0.64 10
1956	0.00 5	0.00 5	0.00 5	0.00 5	0.00 5	0.00 5	0.15 12	0.25 13	0.57 15	0.88 14
1957	0.00 6	0.00 6	0.00 6	0.00 6	0.00 6	0.00 6	0.00 5	0.03 8	0.23 8	0.52 8
1958	0.00 7	0.00 7	0.00 7	0.00 7	0.06 15	0.16 15	0.24 14	0.34 15	0.55 14	2.29 16
1959	0.00 8	0.00 8	0.00 8	0.00 8	0.07 16	0.16 16	0.29 15	0.32 14	0.40 12	0.73 12
1960	0.20 18	0.20 18	0.20 18	0.26 18	0.66 18	1.07 18	1.30 18	2.52 20	2.70 20	6.56 20
1961	0.90 20	1.43 21	1.66 21	1.81 21	2.17 21	3.19 21	3.74 21	4.54 21	4.43 21	5.52 21
1962	0.40 21	1.03 20	1.17 20	1.24 20	1.29 19	1.32 19	1.43 19	1.52 18	1.55 18	3.06 19
1963	0.80 19	0.90 19	1.04 19	1.18 19	1.47 20	1.57 20	1.75 20	1.88 19	2.06 18	2.54 17
1964	0.00 9	0.00 9	0.00 9	0.00 9	0.00 7	0.00 7	0.08 11	0.16 11	0.27 9	0.64 11
1965	0.00 10	0.00 10	0.00 10	0.00 10	0.00 8	0.00 8	0.03 10	0.03 9	0.27 10	0.57 9
1966	0.00 11	0.00 11	0.00 11	0.00 11	0.02 14	0.07 13	1.05 17	1.13 16	1.55 17	1.85 15
1967	0.00 12	0.00 12	0.00 12	0.00 12	0.00 9	0.00 9	0.00 6	0.03 10	0.11 7	0.26 3
1968	0.00 13	0.00 13	0.00 13	0.00 13	0.00 10	0.00 10	0.00 7	0.00 4	0.05 5	0.38 7
1969	0.00 14	0.00 14	0.00 14	0.00 14	0.07 17	0.23 17	1.01 16	1.31 17	2.33 19	3.23 18
1970	0.00 15	0.00 15	0.00 15	0.00 15	0.00 11	0.07 14	0.22 13	0.24 12	0.44 13	0.84 13
1971	0.00 16	0.00 16	0.00 16	0.00 16	0.00 12	0.00 11	0.00 8	0.02 6	0.02 4	0.30 5
1972	0.00 17	0.00 17	0.00 17	0.00 17	0.00 13	0.00 12	0.01 9	0.03 7	0.06 6	0.26 4

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## EAST BRANCH SANDSTONE CREEK NEAR ELK CITY, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1952	4.5 21	2.5 21	1.1 21	0.5 21	0.3 21	0.1 21	0.1 21	0.1 21	0.0 21	0.0 21
1953	19.0 17	6.8 19	2.9 19	1.4 20	0.7 20	0.6 20	0.6 20	0.4 20	0.3 20	0.2 20
1954	37.0 14	29.0 9	12.9 10	7.9 9	7.0 8	3.9 7	2.6 9	1.9 11	1.3 11	0.8 12
1955	42.0 11	14.8 14	10.9 11	5.8 11	4.1 10	2.5 11	1.9 12	1.5 12	1.1 13	0.5 15
1956	55.0 10	21.6 11	4.2 12	4.3 12	2.2 14	1.6 13	1.3 13	1.1 15	0.9 15	0.7 13
1957	69.0 7	36.7 6	23.7 5	18.4 5	13.6 5	10.1 4	7.2 4	5.5 5	3.8 5	2.0 6
1958	41.0 12	19.8 12	8.8 13	4.2 13	2.8 12	1.5 14	1.3 14	1.2 13	1.2 12	0.9 11
1959	262.0 1	153.0 1	90.9 1	51.0 1	26.2 1	14.5 1	10.2 1	7.8 3	6.0 3	3.3 3
1960	112.0 3	62.0 3	39.1 3	21.6 4	14.9 4	11.3 3	9.5 3	8.7 2	8.2 1	6.2 1
1961	72.0 5	44.0 4	37.1 4	24.9 3	16.7 3	12.7 2	10.1 2	8.9 1	7.2 2	5.7 2
1962	88.0 4	35.3 7	18.4 7	10.4 6	6.3 7	4.6 6	3.8 6	3.5 6	3.0 6	2.3 4
1963	40.0 13	14.1 15	6.3 15	3.2 15	2.6 13	2.4 12	2.4 10	2.2 9	2.1 8	1.4 8
1964	18.0 18	7.5 17	5.1 17	2.7 17	1.6 17	1.3 15	1.1 15	1.0 16	0.9 16	0.5 16
1965	71.0 6	42.0 5	20.1 6	9.6 7	6.0 6	3.3 9	2.8 8	2.9 7	2.1 9	1.4 9
1966	67.0 9	28.9 10	13.1 9	6.6 10	4.0 11	2.7 10	2.2 11	2.0 10	1.6 10	1.0 10
1967	28.0 15	15.0 13	6.6 14	3.7 14	1.9 15	1.2 16	0.9 17	0.8 17	0.7 17	0.4 17
1968	169.0 2	115.0 2	63.3 2	34.0 2	17.6 2	9.4 5	6.6 5	5.6 4	4.0 4	2.0 5
1969	68.0 8	30.0 8	15.7 8	8.4 8	5.1 9	3.7 8	3.0 7	2.7 8	2.4 7	1.6 7
1970	16.0 19	5.7 20	2.7 20	1.6 19	1.2 18	1.2 17	1.1 16	1.1 14	1.0 14	0.6 14
1971	15.0 20	11.7 16	5.7 16	3.0 16	1.6 16	0.9 18	0.6 18	0.6 18	0.5 18	0.2 18
1972	20.0 16	7.1 18	3.6 18	2.2 18	1.2 19	0.7 19	0.6 19	0.5 19	0.4 19	0.2 19

## RED RIVER BASIN

## 07323000 SANDSTONE CREEK NEAR CHEYENNE, OKLA.

LOCATION.--Lat 35°33'10", long 99°31'50", on south line of SE 1/4 SE 1/4 sec.34, T.13 N., R.22 W., Roger Mills County, near left bank on downstream side of pier on county road bridge, 4.5 mi (7.2 km) upstream from Wildcat Creek, 9.1 mi (14.6 km) southeast of Cheyenne, and at mile 6.0 (9.7 km).

DRAINAGE AREA.--87.1 mi<sup>2</sup> (225.6 km<sup>2</sup>), of which 4.0 mi<sup>2</sup> (10.4 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD.--April 1951 to June 1974.

AVERAGE DISCHARGE.--22 years (1952-73), 6.33 ft<sup>3</sup>/s (0.179 m<sup>3</sup>/s).

REMARKS.--Flow from 65.6 mi<sup>2</sup> (169.9 km<sup>2</sup>) regulated by 22 flood-retarding structures combined original capacity, about 21,100 acre-ft (26.0 hm<sup>3</sup>). Some diversions for irrigation above station.

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

## SANDSTONE CREEK NEAR CHEYENNE, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS	
1952	222						24	9	4	12	29	19	13	10	8	3	6	2					3	2												360.9
1953	184						127	33	4	3	3	4			2				1				3	1											251.7	
1954	114						8105	51	13	5	5	2	3	3	6	5	5	6	4	5	4	3	1	5	4	1	4	1	1		1				4610.1	
1955	39						25	7	8	35	85	73	23	15	12	9	6	3	4	2	3	1	3	4	5	3									1790.9	
1956	87						7	2	5	10	7	22	52	70	88	7	5					1		1	1	1	1								975.0	
1957	94						12	18	19	36	38	18	26	15	9	1	2	14	20	9	10	6	7	4	1	1	1	2	2						3241.6	
1958	7						9	10	3	7	18	29	36	69	95	50	15	6	2	1	2	2		1	2		1								1463.9	
1959										2	26	37	55	69	77	23	24	19	6	2	1	7	2	3	1	4	2	1	2	1		1			5766.8	
1960																5	21	74	71	33	60	58	21	11	4	5	2			1					6309.7	
1961																5	42	33	56	113	61	21	10	8	8	1	3	1	3						6291.3	
1962																1	46	105	119	30	26	8	9	11	5	1	1	1	1	1					3441.3	
1963																																				2166.4
1964	27																																			1096.1
1965																																				2078.2
1966																																				1555.1
1967																																				642.6
1968																																				2097.0
1969																																				2651.9
1970	43	2	10	2	2	8	16	5	12	5	7	11	10	90	82	36	14	4	1	1	2	1	1												899.9	
1971	63	3	11	17	16	48	23	26	44	50	27	9	8	10	2	2	1					1	1		1	1	1	1							534.3	
1972																																				818.8
1973																																				1816.8

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	880	8036	100.0	9	0.40	323	6160	76.7	18	10.0	351	910	11.3	27	220	15	27	.3
1	0.01	2	7156	89.0	10	0.60	520	5837	72.6	19	14.0	172	559	7.0	28	320	8	12	.1
2	0.02	15	7154	89.0	11	0.90	618	5317	66.2	20	20.0	126	387	4.8	29	450	2	4	.0
3	0.04	17	7139	88.8	12	1.30	609	4699	58.5	21	28.0	80	261	3.2	30	630	2	2	.0
4	0.05	26	7122	88.6	13	1.80	757	4090	50.9	22	40.0	52	181	2.3	31	890	2	2	.0
5	0.07	49	7096	88.3	14	2.50	764	3333	41.5	23	56.0	40	129	1.6	32				
6	0.10	373	7047	87.7	15	3.50	568	2569	32.0	24	79.0	27	89	1.1	33				
7	0.20	268	6674	83.1	16	5.00	630	2001	24.9	25	110.0	25	62	0.8	34				
8	0.30	246	6406	79.7	17	7.10	461	1371	17.1	26	160.0	10	37	0.5					

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## SANDSTONE CREEK NEAR CHEYENNE, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1953	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.01 1	0.68 1
1954	0.00 2	0.00 2	0.00 2	0.00 2	0.00 2	0.14 6	0.21 5	0.22 3	1.30 8	1.44 3
1955	0.00 3	0.00 3	0.00 3	0.00 3	0.00 3	0.00 2	0.00 2	0.01 2	0.20 2	12.10 18
1956	0.00 4	0.00 4	0.06 10	0.08 9	0.09 9	0.45 12	1.79 15	1.88 15	2.31 15	5.98 13
1957	0.00 5	0.00 5	0.00 4	0.00 4	0.00 4	0.00 3	0.00 3	0.30 5	0.55 4	1.85 5
1958	0.00 6	0.00 6	0.00 5	0.00 5	0.00 5	0.23 8	0.60 9	1.21 12	1.88 14	9.71 15
1959	0.10 13	0.10 13	0.20 13	0.44 14	0.78 16	1.08 16	1.47 14	1.62 14	1.83 12	3.62 12
1960	0.60 16	0.83 16	0.97 16	1.46 16	2.32 16	5.13 19	6.42 19	9.70 20	10.10 20	25.00 21
1961	3.10 21	3.30 21	3.61 21	4.29 21	4.44 21	7.11 21	10.40 21	11.20 21	13.10 21	14.70 20
1962	2.90 20	3.03 20	3.24 20	3.53 20	3.91 20	4.03 18	4.41 16	4.81 16	5.26 16	12.30 19
1963	2.40 19	2.83 19	2.90 19	2.99 19	3.72 19	6.92 20	7.14 20	7.56 19	7.51 18	10.40 17
1964	0.20 14	0.23 15	0.29 14	0.37 13	0.51 13	0.57 13	0.83 11	1.02 10	1.37 9	3.25 9
1965	0.00 7	0.00 7	0.00 6	0.00 6	0.08 8	0.28 9	0.37 6	0.41 6	1.49 10	3.35 10
1966	0.20 15	0.20 14	0.31 15	0.47 15	0.69 15	1.02 15	4.88 17	5.10 17	6.60 17	7.58 14
1967	0.02 10	0.03 10	0.04 9	0.09 11	0.15 11	0.43 11	0.84 12	1.00 9	1.05 7	1.48 4
1968	0.06 12	0.07 12	0.07 11	0.08 10	0.15 12	0.18 7	0.54 8	1.15 11	1.69 11	2.13 7
1969	0.48 17	0.52 17	0.53 17	0.59 17	0.99 17	1.76 17	5.21 18	6.65 18	9.29 19	10.10 16
1970	0.30 16	0.32 16	0.40 16	0.52 16	0.62 14	0.95 14	1.35 13	1.58 13	1.87 13	3.38 11
1971	0.00 8	0.00 8	0.00 7	0.00 7	0.00 6	0.03 5	0.06 4	0.29 4	0.32 3	1.38 2
1972	0.00 9	0.00 9	0.00 8	0.00 8	0.00 7	0.00 4	0.66 10	0.70 7	0.95 5	1.93 6
1973	0.05 11	0.06 11	0.08 12	0.10 12	0.14 10	0.31 10	0.52 7	0.78 8	0.97 6	2.22 8

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## SANDSTONE CREEK NEAR CHEYENNE, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1952	47.0 22	36.7 19	17.8 19	11.3 16	7.0 20	4.2 21	3.1 21	2.4 21	1.9 21	1.0 21
1953	56.0 20	35.6 20	15.4 21	7.2 22	3.7 22	2.8 22	2.4 22	1.9 22	1.3 22	0.7 22
1954	694.0 2	379.0 2	283.0 2	151.0 2	119.0 2	71.8 2	48.0 2	36.1 2	23.7 2	12.6 4
1955	134.0 17	107.0 11	77.1 7	44.7 7	34.9 5	23.2 6	17.3 6	13.3 7	9.2 9	4.9 12
1956	173.0 13	61.3 15	26.3 17	13.9 17	8.2 18	6.0 19	5.0 17	4.3 17	3.7 17	2.7 16
1957	340.0 3	228.0 3	114.0 4	90.6 4	75.3 3	46.8 3	33.0 3	25.2 5	17.1 5	8.9 6
1958	205.0 12	97.3 13	47.0 13	24.5 13	19.9 10	11.2 12	8.4 13	6.9 14	5.5 14	4.0 14
1959	1770.0 1	847.0 1	509.0 1	259.0 1	137.0 1	74.8 1	52.6 1	40.4 1	29.5 1	15.8 3
1960	325.0 4	180.0 6	99.7 5	54.2 5	33.6 6	26.8 5	26.5 5	26.5 4	21.2 4	17.2 1
1961	314.0 7	147.0 5	176.0 3	106.0 3	62.9 4	41.5 4	31.8 4	27.2 3	21.3 3	17.2 2
1962	315.0 8	136.0 8	66.4 9	35.9 4	21.9 9	18.3 7	16.1 7	15.7 6	13.3 6	9.4 5
1963	322.0 6	115.0 10	51.7 11	25.2 12	15.2 13	8.9 15	8.2 14	7.9 12	7.5 12	5.9 8
1964	152.0 14	56.0 16	34.0 15	18.2 15	11.2 16	9.9 14	7.4 15	6.2 15	5.0 15	3.0 15
1965	241.0 10	152.0 7	75.4 8	37.8 8	26.9 7	14.4 10	11.4 11	11.4 10	8.5 11	5.7 9
1966	220.0 11	100.0 12	45.3 12	26.2 11	15.5 12	10.1 13	8.6 12	7.7 13	6.7 13	4.3 13
1967	94.0 18	45.3 18	20.4 18	10.9 19	6.0 21	4.5 20	3.4 20	2.7 20	2.5 19	1.8 19
1968	324.0 5	199.0 4	99.3 6	51.1 6	26.6 8	14.7 8	13.3 8	12.9 8	9.7 8	5.7 10
1969	296.0 9	117.0 9	55.9 10	29.3 10	19.6 11	14.4 9	13.0 9	12.0 9	10.7 7	7.3 7
1970	48.0 21	29.7 21	16.3 20	10.7 20	8.3 17	6.1 17	5.0 16	4.5 16	3.9 16	2.5 17
1971	135.0 16	95.7 14	42.9 14	23.2 14	12.3 15	6.4 16	4.7 19	3.7 19	2.5 20	1.5 20
1972	60.0 19	22.8 22	13.4 22	10.0 21	7.8 19	6.0 18	4.9 18	4.2 18	3.2 18	2.2 18
1973	140.0 15	55.0 17	28.3 16	17.3 16	14.3 14	13.4 11	12.5 10	10.3 11	8.7 10	5.0 11



## RED RIVER BASIN

07324200 WASHITA RIVER NEAR HAMMON, OKLA.

LOCATION.--Lat 35°39'23", long 99°18'21", on west line of sec.26, T.14 N., R.20 W., Custer County, on right bank near county road bridge, 2.2 mi (3.5 km) downstream from Quartermaster Creek, 4.7 mi (7.6 km) northeast of Hammon, and at mile 494.5 (795.7 km).

DRAINAGE AREA.--1,387 mi<sup>2</sup> (3,592 km<sup>2</sup>).

PERIOD OF RECORD.--October 1969 to September 1974.

AVERAGE DISCHARGE.--5 years (1970-74), 13.8 ft<sup>3</sup>/s (0.391 m<sup>3</sup>/s).

REMARKS.--Some regulation by numerous flood-retarding structures.

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

WASHITA RIVER NEAR HAMMON, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS	
1970	48	1	10	4	3	3	14	7	16	54	5	3	4	21	52	47	19	6	12	17	9	8	6	4	3	3	1	2	1	1	1	1	1	6131.9		
1971	86	12	6	9	17	9	85	34	38	19	4	1	6	3	4	9	3	2	3	4	3	1	1	1	1	1	1	1	1	2	1	1	3912.0			
1972	295	2	10	11	10	5	7	2	3	2	2	1	3	1	4	2	2	1			2		1											179.9		
1973	194	1	1	3	2	1	6	4	7	2	1	3	6	5	4	6	5	6	7	12	10	15	13	19	9	7	4	1	1				7462.5			
1974	41	1	5	3	4	2	10	2	3	6	11	8	6	2	4	17	29	38	76	27	23	14	10	8	6	2	4	3					7516.9			

CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT
0	0.00	664	1426	100.0	9	0.50	83	786	43.0	18	11.0	98	362	14.8	27	270	7	14	.7					
1	0.01	17	1157	63.4	10	0.70	23	703	38.5	19	16.0	60	264	14.5	28	390	2	7	.3					
2	0.02	32	1140	62.4	11	1.00	16	680	37.2	20	23.0	47	204	11.2	29	550	3	5	.2					
3	0.04	30	1108	60.7	12	1.40	25	664	36.4	21	35.0	38	157	8.6	30	790		2	.1					
4	0.05	36	1078	59.0	13	2.00	32	639	35.0	22	47.0	31	119	6.5	31	1100	2	2	.1					
5	0.06	20	1042	57.1	14	2.80	53	607	33.2	23	67.0	32	68	4.8	32									
6	0.10	120	1022	56.0	15	4.00	61	554	30.3	24	95.0	19	56	3.1	33									
7	0.20	49	902	49.4	16	5.70	58	473	25.9	25	140.0	13	37	2.0	34									
8	0.50	67	853	46.7	17	8.10	53	415	22.7	26	190.0	10	24	1.3										

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

WASHITA RIVER NEAR HAMMON, OKLAHOMA

YEAR	1	5	7	14	30	60	90	120	183	ANNUAL				
1971	0.00	1	0.00	1	0.00	1	0.05	3	0.15	3	0.25	3	15.00	3
1972	0.00	2	0.00	2	0.00	2	0.00	1	0.01	2	0.02	2	10.60	2
1973	0.00	3	0.00	3	0.00	3	0.00	2	0.00	1	0.00	1	0.87	1
1974	0.00	4	0.00	4	0.00	4	0.03	4	6.90	4	8.77	4	30.50	4

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

WASHITA RIVER NEAR HAMMON, OKLAHOMA

YEAR	1		3		7		15		30		60		90		120		183		ANNUAL	
1970	1240.0	1	754.0	1	429.0	2	248.0	1	140.0	1	81.1	2	58.1	2	44.8	2	31.4	2	16.8	3
1971	1120.0	2	718.0	2	468.0	2	232.0	2	119.0	2	60.5	4	42.9	4	32.2	4	21.2	4	10.7	4
1972	61.0	5	33.7	5	16.7	5	7.8	5	3.9	5	2.0	5	1.9	5	1.4	5	0.9	5	0.5	5
1973	484.0	3	346.0	3	208.0	3	158.0	3	108.0	3	98.4	1	72.6	1	57.1	1	40.8	1	20.4	2
1974	385.0	4	292.0	4	184.0	4	129.0	4	89.5	4	66.8	3	51.2	3	42.1	3	31.3	3	20.6	1

## RED RIVER BASIN

323

07324400 WASHITA RIVER NEAR FOSS, OKLA.

LOCATION.--Lat 35°32'20", long 99°10'10", in SW 1/4 SW 1/4 sec.1, T.12 N., R.19 W., Custer County, on left bank on downstream side of pile bent of county road bridge, 0.4 mi (0.6 km) downstream from Oak Creek, 0.9 mi (1.4 km) downstream from Foss Dam, 2.5 mi (4.0 km) west of Stafford, 6.0 mi (9.7 km) north of Foss, and at mile 473.5 (761.9 km).

DRAINAGE AREA.--1,511 mi<sup>2</sup> (4,017 km<sup>2</sup>).

PERIOD OF RECORD.--July 1961 to September 1974.

AVERAGE DISCHARGE.--13 years (1962-74), 17.6 ft<sup>3</sup>/s (0.498 m<sup>3</sup>/s).

REMARKS.--Except for 55 mi<sup>2</sup> (1,425 km<sup>2</sup>) intervening area, flow completely regulated since 1961 by Foss Reservoir in Oklahoma.

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

## WASHITA RIVER NEAR FOSS, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34		
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS		
1962							6	5	26	8	12	32	86	64	44	15	11	11	12	9	3	2	1	4	1	3	2		1		2				3608.8		
1963							6	12	4	10	4	11	14	12	59	106	45	27	29	5	9	2	1	2	5	1	1	1							1412.1		
1964							7	42	10	26	5	38	66	51	26	23	9	13	8	5	6	5	2	3	4	8	1		2	5		1			2410.9		
1965							1	21	5	4		2	7	6	5	16	23	92	82	34	13	14	11	8	5	6	4	2	1		3				3482.8		
1966							6	5	6	26	7	14	3	21	14	33	42	74	28	33	12	13	12	4	4	3	2		1		1			1		2835.0	
1967							2	6	44	25	19	10	42	89	46	17	10	2	7	6	5	3	6	3	9	4	1	6	2			1				1684.4	
1968							1	6	18	28	47	47	24	27	1	8	12	15	20	18	14	25	11	20	3	6	4	1	1	1	2	3	2	1			3119.3
1969																5	18	38	117	64	35	16	10	13	21	8	5	5	5	1	1		2		1		4363.1
1970																8	7	68	119	70	39	11	14	4	9	6	1	2	2	2	2		1			3330.1	
1971																																				2918.9	
1972																																				4234.1	
1973																																				4438.8	
1974																																				6441.5	

CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT
0	0.00	0	4748	100.0	9	1.00	210	4020	84.7	18	12.0	165	651	13.7	27	150	19	36	.7	27	150	19	36	.7
1	0.06	1	4748	100.0	10	1.30	238	3810	80.2	19	16.0	125	486	10.2	28	210	7	17	.3	28	210	7	17	.3
2	0.07	8	4747	100.0	11	1.70	297	3572	75.2	20	22.0	93	361	7.6	29	270	1	10	.2	29	270	1	10	.2
3	0.10	44	4739	99.8	12	2.30	461	3275	69.0	21	29.0	79	288	5.6	30	360	4	9	.1	30	360	4	9	.1
4	0.20	156	4695	98.9	13	3.00	633	2814	59.5	22	38.0	55	189	4.0	31	480	3	5	.1	31	480	3	5	.1
5	0.30	108	4539	95.6	14	4.00	649	2181	45.9	23	50.0	44	134	2.8	32	630	2	2	.0	32	630	2	2	.0
6	0.40	158	4431	93.3	15	5.30	433	1542	32.3	24	67.0	17	90	1.9	33					33				
7	0.60	59	4273	90.0	16	7.10	281	1049	23.1	25	88.0	23	73	1.5	34									
8	0.70	194	4214	88.8	17	9.40	167	818	17.2	26	120.0	14	50	1.1										

## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## WASHITA RIVER NEAR FOSS, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1963	0.40 7	0.43 7	0.50 7	0.59 6	0.73 6	2.41 7	2.46 5	2.64 5	3.26 6	8.19 5
1964	0.10 2	0.10 2	0.11 2	0.15 2	0.30 4	0.43 4	0.57 3	0.73 3	0.98 2	2.59 1
1965	0.10 3	0.20 4	0.20 4	0.20 3	0.21 2	0.35 2	4.20 10	5.45 11	5.86 10	9.57 7
1966	0.60 4	1.03 10	1.10 9	2.25 12	3.65 12	4.56 12	4.86 12	5.52 12	11.60 12	11.80 9
1967	0.13 4	0.15 3	0.18 3	0.22 4	0.26 3	0.35 3	0.55 2	0.71 2	1.49 3	2.82 2
1968	0.06 1	0.07 1	0.08 1	0.10 1	0.13 1	0.20 1	0.24 1	0.29 1	0.40 1	4.02 3
1969	0.55 8	0.60 8	0.67 8	0.68 7	1.43 7	3.07 9	3.10 7	3.23 7	4.04 7	10.60 8
1970	1.60 12	1.60 12	1.79 12	2.21 11	3.33 11	3.65 11	3.89 8	4.17 8	5.40 8	12.30 10
1971	1.00 10	1.00 9	1.31 10	1.41 9	1.57 8	1.79 6	2.61 6	2.94 6	2.90 5	7.93 4
1972	1.00 11	1.10 11	1.34 11	1.63 10	2.25 9	2.48 8	4.28 11	4.97 10	5.79 9	9.51 6
1973	0.27 5	0.27 5	0.31 5	0.35 5	0.50 5	0.87 5	1.34 4	1.55 4	2.15 4	12.40 11
1974	0.33 6	0.36 6	0.42 6	0.69 8	2.68 10	3.47 10	3.90 9	4.28 9	6.47 11	13.40 12

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## WASHITA RIVER NEAR FOSS, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL										
1962	464.0	6	214.0	5	124.0	5	67.7	5	45.1	4	27.9	5	21.3	6	18.0	6	12.7	8	9.9	5
1963	64.0	13	25.1	13	15.2	13	7.5	13	6.9	13	5.9	13	5.0	13	4.8	13	4.6	13	3.9	13
1964	251.0	8	132.0	9	99.1	8	66.3	7	41.3	6	21.8	10	16.3	10	17.9	7	12.3	9	6.6	11
1965	201.0	10	140.0	8	84.0	10	52.4	10	30.3	11	17.0	11	13.6	12	15.2	9	12.1	10	9.5	6
1966	501.0	3	256.0	3	135.0	4	71.9	4	39.7	7	24.5	7	14.2	8	14.8	11	11.5	11	7.8	10
1967	145.0	11	82.0	12	48.9	12	36.6	12	26.5	12	17.0	12	14.3	11	11.1	12	7.7	12	4.6	12
1968	337.0	7	204.0	7	115.0	6	60.8	6	43.4	5	26.4	6	23.6	5	22.0	5	16.6	5	8.5	8
1969	1020.0	1	436.0	1	208.0	1	109.0	1	77.0	1	42.6	2	30.1	3	23.8	4	19.2	3	12.0	3
1970	224.0	9	116.0	10	80.7	11	66.7	6	57.0	8	23.3	8	19.1	9	15.2	10	12.9	7	9.1	7
1971	147.0	12	107.0	11	87.0	9	47.1	11	36.0	9	22.5	9	19.5	7	17.2	8	13.1	6	8.0	9
1972	483.0	5	209.0	6	101.0	7	53.2	4	31.5	10	30.4	4	26.5	4	24.8	3	17.4	4	11.4	4
1973	630.0	2	286.0	2	142.0	3	78.3	3	57.6	2	38.4	3	33.4	2	28.0	2	21.2	2	12.2	2
1974	493.0	4	239.0	4	151.0	2	84.7	2	56.7	3	43.7	1	35.3	1	30.2	1	29.1	1	17.6	1

## RED RIVER BASIN

07324500 BARNITZ CREEK NEAR ARAPAHO, OKLA.

LOCATION.--Lat 35°34'50", long 99°02'35", in NE 1/4 NE 1/4 sec.30, T.13 N., R.17 W., on right bank on downstream side of pier of county road bridge, 0.5 mi (0.8 km) downstream from confluence of East and West Barnitz Creeks, 4.5 mi (7.2 km) west of Arapaho, and 6 mi (9.7 km) upstream from mouth.

DRAINAGE AREA.--243 mi<sup>2</sup> (629 km<sup>2</sup>).

PERIOD OF RECORD.--September 1945 to December 1963.

AVERAGE DISCHARGE.--7 years (1946-53), 16.9 ft<sup>3</sup>/s (0.479 m<sup>3</sup>/s).

REMARKS.--Flow from about 75 percent of the drainage area is regulated by numerous flood detention reservoirs.

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

BARNITZ CREEK NEAR ARAPAHO, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
YEAR	NUMBER OF DAYS IN CLASS																																		CFS/DAYS
1946	246	45	8	3	10	2	3	3	6	2	6	2	7	1	4	1	1	1	3	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	2929.0
1947	90	30	18	19	19	51	15	11	19	11	10	7	14	8	6	3	8	4	6	2	3	8	2	6	5	1	3	1	2	2	1	1	1	1	11074.1
1948	514					13				5	2	3	6	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3752.0
1949	190	6	1	1	4	1	5	9	13	13	8	11	16	13	7	7	7	5	5	3	6	3	7	2	3	1	3	2	2	2	2	2	2	11860.7	
1950	195	62	17	2	5	1	4	2	9	4	8	6	6	4	7	6	5	5	3	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	6439.9
1951	176	10	14	11	10	2	11	4	21	14	11	11	7	7	7	9	5	5	4	5	4	4	1	2	2	2					2			8109.3	
1952	188	51	27	36	35	51	7	8	1	2	2		4	5	1	3		1		2	1	1													506.8
1953	529	2	3	2	2	1	1	5	2	1	3	1	3	2	1	1			3	2	2	1													584.3

CLASS	CFS	TOTAL	ACCUM	PENCT	CLASS	CFS	TOTAL	ACCUM	PENCT	CLASS	CFS	TOTAL	ACCUM	PENCT	CLASS	CFS	TOTAL	ACCUM	PENCT	CLASS	CFS	TOTAL	ACCUM	PENCT
0	0.00	1766	2922	100.0	9	1.90	62	546	14.7	15	27.0	14	171	5.9	27	340	6	29	.9					
1	0.10	166	1216	41.6	10	2.60	46	484	10.6	19	36.0	23	152	5.2	28	510	8	23	.7					
2	0.20	85	1030	35.2	11	5.40	43	438	15.0	20	49.0	21	124	4.4	29	690	5	15	.5					
3	0.30	75	945	32.5	12	4.60	61	395	13.5	21	65.0	24	108	3.7	30	950	3	10	.3					
4	0.40	65	870	29.4	13	6.20	41	354	11.4	22	88.0	7	84	2.4	31	1200	6	7	.2					
5	0.60	70	785	26.4	14	8.30	36	243	10.0	23	120.0	20	77	2.6	32	1700	1	1	.0					
6	0.80	54	715	24.5	15	11.00	34	257	8.8	24	160.0	11	57	2.0	33									
7	1.10	38	656	22.5	16	15.00	28	223	7.0	25	210.0	10	46	1.6	34									
8	1.40	72	618	21.1	17	20.00	24	195	6.7	26	280.0	7	36	1.2										

CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT
0	0.00	1766	2922	160.0	9	1.90	62	546	18.7	18	27.0	14	171	5.9	27	380	6	29	.9	27	380	6	29	.9
1	0.10	186	1216	11.6	10	2.60	46	484	10.6	19	36.0	23	152	5.2	28	510	8	23	.7	28	510	8	23	.7
2	0.20	85	1030	55.2	11	5.40	43	438	15.0	20	49.0	21	129	4.4	29	690	5	15	.5	29	690	5	15	.5
3	0.30	75	945	32.3	12	4.60	61	395	13.5	21	65.0	24	108	3.7	30	950	3	10	.3	30	950	3	10	.3
4	0.40	85	870	29.8	13	6.20	41	334	11.4	22	88.0	7	84	2.4	31	1200	6	7	.2	31	1200	6	7	.2
5	0.60	70	785	26.4	14	8.30	36	243	10.0	23	120.0	20	77	2.6	32	1700	1	1	.0	32	1700	1	1	.0
6	0.80	54	715	24.5	15	11.00	34	257	8.8	24	160.0	11	57	2.0	33					33				
7	1.10	34	656	22.5	16	15.00	28	223	7.0	25	210.0	10	46	1.6	34									
8	1.90	72	618	21.1	17	20.00	24	195	6.7	26	280.0	7	36	1.2										

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

BARNITZ CREEK NEAR ARAPAHO, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL		
1947	0.00	1	0.00	1	0.00	1	0.00	7	0.60	7	15.00	2
1948	0.00	2	0.00	2	0.00	2	0.00	1	0.00	1	25.90	7
1949	0.00	3	0.00	3	0.00	3	0.00	2	2.68	7	22.10	6
1950	0.00	4	0.00	4	0.00	4	0.00	3	0.03	3	14.00	4
1951	0.00	5	0.00	5	0.00	5	0.00	4	0.02	4	18.20	5
1952	0.00	6	0.00	6	0.00	6	0.27	6	0.29	5	16.80	5
1953	0.00	7	0.00	7	0.00	7	0.00	5	0.00	2	0.01	1

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

BARNITZ CREEK NEAR ARAPAHO, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	185	ANNUAL								
1946	689.0	5	636.0	5	346.0	5	167.0	5	85.0	5	44.0	5	30.1	5	22.8	6	8.0	6
1947	1980.0	1	798.0	4	423.0	4	256.0	4	140.0	4	125.0	1	88.3	1	70.7	2	50.3	2
1948	514.0	6	329.0	6	157.0	6	73.5	6	53.6	6	35.3	6	25.0	6	22.4	5	10.3	5
1949	1670.0	2	956.0	3	618.0	1	316.0	2	180.0	2	100.0	2	72.7	2	74.6	1	52.5	1
1950	1370.0	4	1000.0	2	482.0	3	354.0	1	189.0	1	100.0	3	69.6	3	53.4	3	17.6	3
1951	1520.0	3	1040.0	1	545.0	2	282.0	3	160.0	3	92.4	4	62.0	4	48.1	4	16.7	4
1952	127.0	7	60.0	7	27.4	7	13.8	7	7.0	8	4.1	8	2.9	8	2.3	8	1.4	8
1953	121.0	8	46.3	8	20.8	8	12.7	8	8.8	7	5.6	7	5.2	7	4.9	7	1.6	7

## 325

LOCATION.--Lat 35°31'52", long 98°57'57", in SW 1/4 NE 1/4 sec.11, T.12 N., R.17 W., Custer County, within channel on downstream side of pier of bridge on U.S. Highway 183, 0.5 mi (0.8 km) north of Clinton, 0.8 mi (1.3 km) upstream from Beaver Creek, 4.8 mi (7.7 km) downstream from Barnitz Creek, and at mile 447.4 (719.9 km).

PERIOD OF RECORD.--October 1935 to September 1974. Statistical summaries for this station are divided into unregulated and regulated periods.

REMARKS.--Flow regulated since February 1961 by Foss Reservoir and by numerous flood-retarding structures.

YEAR	NUMBER OF DAYS IN CLASS																																				CFS	DAYS
1936																																						92777.0
1937																																						32688.0
1938																																						55640.0
1939																																						41704.8
1940																																						31491.1
1941																																						124509.6
1942																																						124368.0
1943																																						66399.0
1944																																						37439.1
1945																																						35533.7
1946																																						21544.5
1947																																						83139.8
1948																																						24097.1
1949																																						97968.5
1950																																						44295.1
1951																																						90812.9
1952																																						11882.7
1953																																						8203.1
1954																																						50614.7
1955																																						22383.7
1956																																						15621.4
1957																																						70464.6
1958																																						18553.4
1959																																						63445.4
1960																																						70851.0
1961																																						38649.2

CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT
0	0.00	192	9497	100.0	9	2.60	341	8777	89.3	18	70.0	590	2644	27.8	27	1900	53	133	1.4
1	0.10	87	9305	94.0	10	5.80	386	1138	85.7	19	100.0	655	2054	21.6	28	2700	43	80	.8
2	0.20	54	9218	77.1	11	5.50	386	7752	61.6	20	150.0	399	1399	14.7	29	2900	16	57	.3
3	0.30	56	9164	46.5	12	7.90	559	7366	77.0	21	210.0	271	1050	11.1	30	5600	10	21	.2
4	0.40	55	9108	95.9	13	11.00	966	8807	71.7	22	300.0	198	779	8.2	31	8100	9	11	.1
5	0.60	60	9053	45.3	14	14.00	741	5841	61.5	23	430.0	156	581	6.1	32	12000	1	2	.0
6	0.90	130	8993	94.7	15	25.00	1006	5100	55.7	24	650.0	112	425	4.5	33	17000	1	1	.0
7	1.50	124	8863	43.3	16	54.00	809	4094	43.1	25	900.0	96	315	3.3	34				
8	1.80	255	8734	92.0	17	49.00	641	3285	34.6	26	1300.0	84	217	2.3					

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## WASHITA RIVER NEAR CLINTON, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1937	10.00 23	10.30 21	11.30 21	11.60 20	16.10 20	24.30 19	25.00 19	25.30 14	31.60 14	260.00 22
1938	9.00 20	9.00 18	9.71 18	10.60 18	12.20 17	13.60 14	14.50 12	14.70 11	19.10 9	83.80 5
1939	4.70 16	4.70 15	5.10 16	5.28 14	5.86 11	10.40 13	14.70 13	19.50 13	29.30 12	162.00 17
1940	1.80 10	1.80 10	1.86 9	2.05 9	3.03 6	3.76 6	4.74 6	4.99 6	5.67 3	97.80 11
1941	1.20 8	1.37 8	1.51 8	1.76 8	2.64 7	8.06 10	8.46 9	9.16 9	16.70 8	91.60 9
1942	10.00 21	10.00 20	10.30 20	49.90 24	90.70 24	91.60 24	96.60 23	105.00 23	252.00 25	460.00 25
1943	45.00 25	49.70 25	59.30 25	78.00 25	97.10 25	106.00 25	118.00 24	121.00 24	203.00 24	315.00 24
1944	8.40 19	9.67 19	9.94 19	10.60 19	11.90 16	15.70 15	18.40 15	35.70 18	39.60 16	109.00 12
1945	7.80 17	8.03 17	8.34 17	10.50 17	15.10 19	25.50 20	32.90 20	36.30 19	43.70 17	96.60 10
1946	5.10 13	3.30 13	3.91 12	4.97 12	7.67 13	9.14 11	11.50 11	15.10 12	24.70 11	85.00 6
1947	1.70 9	1.77 9	1.94 10	2.14 10	10.00 15	23.00 17	23.40 17	29.10 17	72.10 20	87.60 7
1948	2.70 12	2.77 11	2.90 11	3.04 11	3.35 9	4.69 7	5.37 7	7.37 8	8.32 5	213.00 19
1949	0.80 7	0.83 6	0.89 7	0.90 6	1.29 5	5.55 8	17.30 14	66.80 21	77.70 21	111.00 13
1950	10.00 22	10.70 23	11.40 22	11.90 21	14.60 18	23.10 18	23.70 18	26.60 15	31.70 15	215.00 20
1951	3.90 14	4.33 14	4.74 14	6.15 16	26.50 21	31.00 21	35.40 21	36.30 20	45.50 18	127.00 14
1952	4.20 15	4.77 15	4.97 15	5.56 15	8.25 14	16.50 16	23.10 16	26.80 14	31.10 13	242.00 21
1953	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.01 1	0.03 1	0.25 1	17.20 1
1954	0.00 2	0.00 2	0.00 2	0.00 2	0.00 2	1.96 4	2.43 4	2.76 4	21.20 10	32.30 3
1955	0.00 3	0.00 3	0.04 4	0.09 4	0.27 4	0.39 3	0.83 2	1.29 2	1.96 2	129.00 15
1956	0.00 4	0.03 5	0.10 5	0.15 5	4.24 10	5.70 9	6.57 8	6.99 7	57.50 19	88.80 8
1957	0.00 5	0.00 4	0.00 3	0.00 3	0.00 3	0.00 2	1.16 3	1.60 3	13.70 6	21.60 2
1958	2.40 11	3.27 12	3.97 13	4.98 13	6.48 12	9.73 12	11.30 10	11.60 10	14.10 7	193.00 18
1959	0.00 6	0.07 7	0.89 6	1.61 7	2.47 6	3.40 5	4.08 5	4.66 5	6.37 4	46.70 4
1960	8.70 18	10.60 22	13.10 23	18.70 23	43.90 23	54.10 23	135.00 25	147.00 25	140.00 23	292.00 23
1961	14.00 24	14.30 24	16.10 24	17.10 22	29.50 22	42.10 22	61.00 22	71.40 22	131.00 22	138.00 16

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## WASHITA RIVER NEAR CLINTON, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1936	16700.0 2	10000.0 2	46400.0 2	29800.0 2	16500.0 3	12500.0 3	8550.0 2	6440.0 3	4870.0 2	253.0 4
1937	5250.0 17	17800.0 14	11550.0 19	6190.0 19	4480.0 15	2600.0 16	2020.0 19	2010.0 16	1480.0 18	89.6 18
1938	8250.0 7	56800.0 5	3420.0 5	18000.0 6	10600.0 9	6890.0 10	5320.0 9	4240.0 9	2870.0 9	152.0 11
1939	2450.0 21	16000.0 21	11600.0 18	7670.0 15	5130.0 13	4240.0 12	3230.0 12	2740.0 12	2000.0 14	114.0 14
1940	6690.0 4	40300.0 8	17900.0 13	8450.0 13	4440.0 14	3120.0 14	2950.0 14	2310.0 15	1660.0 15	66.0 19
1941	6680.0 5	54800.0 6	41200.0 3	25500.0 3	21200.0 1	15700.0 1	11400.0 1	9270.0 1	6640.0 1	341.0 1
1942	6960.0 9	59800.0 4	51800.0 6	16700.0 8	9600.0 10	7240.0 9	6600.0 7	5300.0 7	4260.0 5	301.0 2
1943	2480.0 18	26500.0 15	19400.0 12	10700.0 12	6220.0 12	5740.0 13	3010.0 13	2550.0 14	2140.0 12	182.0 9
1944	3710.0 15	15900.0 22	7610.0 24	5120.0 22	3370.0 21	2330.0 20	2010.0 20	1870.0 17	1490.0 16	102.0 16
1945	3520.0 16	17400.0 19	15000.0 15	6790.0 17	3750.0 18	2290.0 21	2080.0 18	1760.0 20	1480.0 17	97.4 17
1946	2110.0 23	18900.0 17	12800.0 16	6510.0 16	3350.0 22	2460.0 19	1740.0 21	1380.0 21	984.0 22	59.0 22
1947	7000.0 8	41600.0 12	21700.0 7	19700.0 5	13100.0 6	9400.0 6	7300.0 6	5670.0 5	3840.0 6	228.0 6
1948	2880.0 20	17100.0 20	8120.0 22	4040.0 24	2580.0 24	1960.0 23	1380.0 23	1150.0 23	1220.0 20	65.8 20
1949	5960.0 10	35300.0 10	26400.0 8	17700.0 7	14600.0 4	10400.0 4	7470.0 4	5990.0 4	4680.0 3	268.0 3
1950	4450.0 13	39200.0 9	20700.0 11	14100.0 10	8250.0 11	4810.0 11	3550.0 11	2910.0 11	2090.0 13	121.0 13
1951	24800.0 1	13000.0 1	69400.0 1	34600.0 1	21200.0 2	12500.0 2	8530.0 3	6600.0 2	4530.0 4	249.0 5
1952	6080.0 26	5390.0 26	2460.0 26	1850.0 26	1170.0 25	925.0 26	763.0 26	664.0 25	554.0 25	32.5 25
1953	1700.0 24	8180.0 25	4670.0 25	2210.0 25	1160.0 26	1070.0 25	799.0 25	637.0 26	439.0 26	22.5 26
1954	8260.0 6	43000.0 7	22200.0 10	15700.0 11	11700.0 8	7590.0 7	5150.0 10	3880.0 10	2550.0 10	139.0 12
1955	2370.0 22	12700.0 23	7650.0 23	5750.0 21	3650.0 19	3010.0 16	2160.0 16	1800.0 19	1200.0 21	61.3 21
1956	5440.0 11	27200.0 14	12800.0 17	6110.0 20	3110.0 23	1610.0 24	1090.0 24	833.0 24	575.0 24	42.7 24
1957	4510.0 12	33200.0 11	25600.0 9	15700.0 9	13300.0 5	10000.0 5	7110.0 5	5590.0 4	3700.0 7	193.0 8
1958	2940.0 19	19100.0 16	4750.0 20	4960.0 23	3440.0 20	2220.0 22	1550.0 22	1200.0 22	667.0 23	50.8 23
1959	9340.0 3	17400.0 3	39900.0 4	21300.0 4	12600.0 7	7370.0 8	5850.0 8	4660.0 8	3400.0 8	174.0 10
1960	4560.0 14	28600.0 13	14700.0 14	7750.0 14	4230.0 17	3060.0 15	2660.0 15	2680.0 13	2450.0 11	194.0 7
1961	15400.0 25	11700.0 24	8650.0 21	7080.0 16	4410.0 16	2700.0 17	2140.0 17	1810.0 18	1340.0 19	106.0 15



## SUMMATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

WASHITA RIVER NEAR CLINTON, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34		
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS		
1962																																					26630.3
1963																																					12262.2
1964																																					8584.0
1965																																					22257.4
1966																																					11578.5
1967																																					5054.7
1968																																					14765.0
1969																																					17596.9
1970																																					9926.1
1971																																					5320.5
1972																																					11167.6
1973																																					17846.5
1974																																					26004.0

CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT
0	0.00	5	4748	100.0	9	2.10	101	4613	97.2	18	32.0	455	1122	23.6	27	490	23	55	1.1					
1	0.10	7	4743	99.9	10	2.60	157	4512	95.0	19	44.0	195	667	14.0	28	670	15	32	.6					
2	0.20	3	4736	99.7	11	3.80	305	4355	91.7	20	59.0	125	472	9.9	29	910	4	17	.3					
3	0.30	11	4733	99.7	12	5.20	383	4050	85.3	21	80.0	93	347	7.3	30	1200	8	13	.2					
4	0.50	1	4722	99.5	13	7.00	444	3667	77.2	22	110.0	62	254	5.3	31	1700	4	5	.1					
5	0.60	7	4721	99.4	14	9.50	378	3223	67.9	23	150.0	43	192	4.0	32	2300	1	1	.0					
6	0.80	13	4714	99.3	15	13.00	410	2845	59.9	24	200.0	38	149	3.1	33									
7	1.10	17	4701	99.0	16	17.00	731	2435	51.3	25	270.0	29	111	2.3	34									
8	1.50	71	4684	98.7	17	24.00	582	1704	35.9	26	370.0	27	62	1.7										

## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

WASHITA RIVER NEAR CLINTON, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1962	7.30 12	6.25 12	6.87 12	9.68 12	13.60 12	19.90 12	26.60 10	29.30 11	49.50 12	64.50 12
1963	6.20 13	4.75 13	9.04 13	11.30 13	17.90 13	26.10 13	28.30 12	30.20 12	38.10 11	69.70 13
1964	0.40 4	0.87 4	1.54 5	1.99 4	3.55 5	4.15 2	4.50 1	5.07 1	7.22 3	16.30 3
1965	0.00 1	0.00 1	0.04 1	0.20 1	1.52 1	4.95 5	26.60 11	23.60 10	36.40 10	44.30 7
1966	2.30 9	2.43 8	3.06 8	4.24 9	5.27 8	7.47 8	30.90 13	31.90 13	51.70 13	62.20 11
1967	0.00 2	0.10 2	0.30 2	0.84 2	3.16 4	4.28 3	5.08 4	5.71 4	6.83 2	9.45 1
1968	0.64 6	1.50 6	1.54 6	1.75 3	2.96 3	4.32 4	4.76 3	5.34 2	6.26 1	13.50 2
1969	3.00 10	3.07 9	3.83 10	4.77 10	7.74 11	15.80 11	16.30 8	17.30 8	20.30 7	48.10 9
1970	2.20 8	3.27 10	3.67 9	3.93 8	7.25 10	9.58 9	15.10 7	16.60 9	20.40 8	47.60 8
1971	0.20 3	0.37 3	1.03 3	2.04 5	4.49 6	5.32 6	6.06 5	6.48 5	8.87 5	21.50 5
1972	0.47 5	0.89 5	1.28 4	2.92 7	4.78 7	7.21 7	13.00 6	14.00 6	20.00 6	21.40 4
1973	1.50 7	1.60 7	2.00 7	2.09 6	2.56 2	3.91 1	4.71 2	5.59 3	7.47 4	31.90 6
1974	4.60 11	4.87 11	5.09 11	5.69 11	6.78 9	13.30 10	16.50 9	16.50 7	23.70 9	54.00 10

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

WASHITA RIVER NEAR CLINTON, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1962	3960.0 1	1730.0 1	903.0 1	480.0 1	254.0 2	159.0 3	116.0 3	132.0 1	97.2 2	73.5 1
1963	524.0 12	342.0 11	185.0 11	108.0 12	66.2 12	51.8 11	46.5 10	42.0 10	42.5 8	33.6 7
1964	817.0 9	443.0 9	230.0 9	122.0 9	83.1 9	66.0 9	50.0 9	53.9 9	40.2 9	23.5 11
1965	1670.0 5	969.0 5	516.0 5	265.0 5	169.0 6	100.0 6	94.0 5	82.2 6	72.8 6	61.0 3
1966	1240.0 7	789.0 6	415.0 7	228.0 7	139.0 7	87.3 7	69.5 7	59.5 7	51.4 7	31.7 8
1967	623.0 10	330.0 12	162.0 12	110.0 11	72.4 11	42.0 12	30.9 13	26.9 13	20.8 13	13.8 13
1968	1560.0 6	765.0 7	502.0 6	254.0 6	181.0 5	130.0 4	110.0 4	103.0 4	74.4 5	40.3 6
1969	1750.0 4	1140.0 3	728.0 3	392.0 3	244.0 4	129.0 5	89.1 6	85.1 5	74.8 4	48.2 5
1970	533.0 11	362.0 10	185.0 10	118.0 10	73.2 10	52.8 10	43.8 11	38.0 11	35.9 11	27.2 10
1971	520.0 13	293.0 13	156.0 13	90.6 13	51.0 13	38.3 13	32.3 12	26.9 12	21.1 12	14.6 12
1972	1100.0 8	646.0 8	311.0 8	160.0 8	91.8 8	76.2 8	60.2 8	53.9 8	39.1 10	30.5 9
1973	1990.0 2	1090.0 4	623.0 4	369.0 4	248.0 3	160.0 2	140.0 1	115.0 2	85.9 3	48.9 4
1974	1830.0 3	1220.0 2	739.0 2	442.0 2	328.0 1	178.0 1	127.0 2	110.0 3	107.0 1	71.2 2



LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## WASHITA RIVER AT CARNEGIE, OKLA.

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1939	17.0 10	17.3 10	17.9 10	18.8 10	21.5 8	29.1 9	55.2 13	73.3 16	76.9 11	261.0 10
1940	6.9 5	7.0 4	7.0 4	7.3 4	9.7 5	11.6 4	12.9 3	13.6 3	15.5 2	135.0 4
1941	13.0 8	13.0 8	13.7 7	15.2 7	17.4 6	28.0 7	39.0 8	38.3 7	48.7 6	151.0 6
1942	24.0 14	24.7 13	25.7 13	29.1 13	167.0 22	175.0 22	187.0 20	208.0 21	551.0 21	840.0 22
1943	45.0 22	98.3 22	112.0 22	127.0 22	156.0 21	170.0 21	191.0 21	201.0 20	251.0 19	573.0 19
1944	28.0 17	29.0 14	28.4 14	29.4 14	30.1 12	38.3 11	46.1 9	74.0 17	77.4 12	263.0 11
1945	38.0 20	38.0 20	40.1 20	44.0 19	57.8 18	70.2 19	89.6 15	58.1 19	113.0 18	301.0 13
1946	26.0 15	28.7 17	29.1 15	31.1 15	38.4 13	51.7 13	57.1 14	59.2 11	58.6 14	318.0 14
1947	34.0 19	35.0 19	37.1 19	41.7 17	49.4 17	58.9 17	59.5 16	60.8 12	101.0 15	186.0 8
1948	19.0 11	19.7 11	21.1 11	22.3 11	23.7 10	28.4 8	28.8 6	35.2 5	54.1 7	436.0 17
1949	14.0 9	14.0 9	14.1 9	15.3 8	18.1 7	24.1 6	52.4 10	78.7 18	102.0 16	160.0 7
1950	39.0 21	41.0 21	41.7 21	43.0 18	46.9 16	54.9 15	59.0 15	62.0 13	66.3 10	551.0 18
1951	26.0 16	28.3 15	30.4 17	50.7 21	60.7 19	63.2 18	67.0 18	65.3 15	80.7 13	287.0 12
1952	24.0 12	25.0 12	27.4 12	27.4 12	42.4 15	48.6 12	53.6 11	57.6 10	60.8 9	377.0 16
1953	3.1 2	3.1 2	3.2 2	3.3 2	3.7 2	4.2 2	5.0 1	6.3 1	10.3 1	64.9 1
1954	3.4 2	3.5 2	4.3 3	5.6 3	8.4 4	23.8 5	24.7 5	44.3 8	103.0 17	143.0 5
1955	7.0 6	7.2 5	7.5 5	7.6 5	8.6 3	9.7 3	10.9 2	12.5 2	16.0 3	193.0 9
1956	8.2 7	10.1 7	13.7 7	16.6 9	29.0 11	58.5 16	63.4 17	64.7 14	325.0 20	363.0 15
1957	0.1 1	0.3 1	0.7 1	0.8 1	1.1 1	1.2 1	17.7 4	19.5 4	38.0 5	71.5 2
1958	24.0 13	28.7 16	29.9 16	32.7 16	41.7 14	52.6 14	54.3 12	55.0 9	59.9 8	624.0 20
1959	6.8 4	7.6 6	9.1 6	11.5 6	22.8 9	31.5 10	35.5 7	36.7 6	37.1 4	100.0 3
1960	30.0 18	31.0 18	32.9 18	48.9 20	78.4 20	162.0 20	357.0 22	397.0 22	569.0 22	681.0 21

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## WASHITA RIVER AT CARNEGIE, OKLA.

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1938	6520.0 12	4890.0 14	2220.0 14	1920.0 15	1330.0 14	991.0 10	777.0 11	633.0 11	443.0 13	245.0 13
1939	2450.0 22	2200.0 22	1720.0 20	1180.0 18	767.0 18	542.0 18	408.0 15	344.0 18	265.0 18	171.0 18
1940	4050.0 17	3210.0 19	1800.0 19	899.0 21	567.0 20	377.0 19	409.0 18	336.0 19	252.0 19	134.0 19
1941	3820.0 9	7080.0 3	5940.0 7	4210.0 5	3710.0 3	2710.0 3	2060.0 2	1600.0 2	1120.0 2	585.0 4
1942	8700.0 10	7470.0 6	6790.0 3	3720.0 6	2170.0 6	1360.0 6	1300.0 6	1040.0 5	852.0 4	706.0 1
1943	6160.0 15	4720.0 15	3080.0 15	2770.0 11	1650.0 9	973.0 11	730.0 12	589.0 13	454.0 12	345.0 10
1944	9460.0 6	6210.0 11	3260.0 13	2100.0 14	1300.0 15	794.0 16	716.0 14	629.0 12	490.0 11	290.0 11
1945	4940.0 8	7530.0 8	5570.0 8	2980.0 9	1610.0 11	953.0 12	856.0 8	746.0 8	567.0 9	350.0 9
1946	3760.0 19	3420.0 16	2860.0 16	1740.0 16	926.0 17	645.0 17	468.0 17	368.0 17	268.0 17	175.0 17
1947	4370.0 7	7520.0 7	6510.0 5	4320.0 4	2890.0 5	1840.0 5	1450.0 4	1130.0 4	766.0 5	432.0 6
1948	2250.0 23	1830.0 23	1060.0 23	678.0 23	386.0 23	340.0 22	247.0 22	204.0 22	210.0 20	133.0 20
1949	3530.0 1	1890.0 1	1030.0 1	6220.0 1	4780.0 1	2830.0 2	1960.0 3	1520.0 3	1110.0 3	602.0 3
1950	5350.0 12	5320.0 13	3720.0 11	3050.0 8	2050.0 7	1170.0 7	830.0 9	690.0 9	452.0 10	280.0 12
1951	24300.0 2	15400.0 2	8960.0 2	4600.0 3	4160.0 4	1890.0 4	1300.0 5	1010.0 6	693.0 6	387.0 7
1952	2040.0 21	2210.0 21	1170.0 22	692.0 22	400.0 22	301.0 23	224.0 23	184.0 23	142.0 23	87.5 23
1953	4520.0 16	3470.0 17	1930.0 18	1010.0 16	556.0 21	373.0 20	299.0 20	235.0 20	182.0 21	97.4 22
1954	4280.0 14	5600.0 12	3640.0 12	2230.0 13	1570.0 12	1050.0 9	723.0 13	550.0 15	365.0 15	237.0 14
1955	3460.0 18	3450.0 18	1970.0 17	1680.0 17	1180.0 16	930.0 13	576.0 15	556.0 14	401.0 14	210.0 16
1956	14500.0 3	12600.0 3	6480.0 6	3150.0 7	1630.0 10	857.0 14	592.0 16	459.0 16	325.0 16	211.0 15
1957	10600.0 5	3620.0 4	6760.0 4	5670.0 2	4120.0 2	3130.0 1	2290.0 1	1760.0 1	1180.0 1	616.0 2
1958	3420.0 20	3050.0 20	1740.0 21	916.0 20	596.0 19	371.0 21	260.0 21	220.0 21	169.0 22	112.0 21
1959	9480.0 11	7060.0 10	4510.0 10	2650.0 12	1770.0 8	1140.0 8	1140.0 7	513.0 7	685.0 7	364.0 8
1960	10700.0 4	9070.0 5	5500.0 9	2870.0 10	1550.0 13	852.0 15	780.0 10	683.0 10	672.0 8	449.0 5



LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## WASHITA RIVER NEAR CARNEGIE, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1962	65.00 13	74.70 13	84.10 13	103.00 13	120.00 13	131.00 13	143.00 13	162.00 12	307.00 12	343.00 12
1963	41.00 12	45.30 12	49.30 11	61.60 12	86.50 12	117.00 12	118.00 11	126.00 11	173.00 11	308.00 10
1964	12.00 7	13.00 8	14.00 8	16.70 7	25.70 7	34.00 5	37.10 4	39.10 3	48.70 5	82.70 4
1965	0.00 1	0.00 1	0.00 1	0.00 1	3.91 1	27.60 4	72.20 7	107.00 10	135.00 9	204.00 7
1966	7.50 5	7.83 5	11.60 6	18.80 8	28.70 8	50.10 8	131.00 12	172.00 13	352.00 13	386.00 13
1967	12.00 6	12.00 7	12.90 7	16.00 6	25.40 6	42.10 7	44.60 5	46.50 5	46.90 3	73.40 3
1968	8.80 6	8.83 6	9.67 5	12.10 5	16.50 5	27.10 3	29.80 2	33.20 2	44.00 2	72.60 2
1969	22.00 10	24.00 10	27.10 10	49.60 10	74.10 11	83.00 10	90.00 9	106.00 9	114.00 7	247.00 8
1970	38.00 11	41.70 11	50.10 12	54.00 11	62.20 10	72.40 9	76.80 8	76.50 6	78.80 6	267.00 9
1971	0.20 2	0.32 2	0.51 2	1.38 2	9.81 3	13.30 2	28.00 1	30.10 1	31.90 1	71.20 1
1972	1.20 3	1.40 3	2.51 3	3.96 3	7.65 2	9.38 1	48.40 6	77.30 7	123.00 8	124.00 5
1973	4.90 4	4.97 4	5.29 4	5.92 4	10.80 4	36.70 6	32.90 3	40.90 4	47.20 4	160.00 6
1974	19.00 9	20.00 9	21.90 9	24.90 9	36.10 9	83.90 11	90.30 10	96.40 8	169.00 10	335.00 11

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## WASHITA RIVER NEAR CARNEGIE, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1962	5240.0 4	4040.0 5	2840.0 5	1860.0 4	1330.0 4	758.0 4	595.0 3	587.0 3	442.0 3	375.0 1
1963	2190.0 11	1350.0 12	762.0 11	541.0 9	366.0 9	266.0 8	229.0 8	198.0 8	176.0 8	144.0 8
1964	2610.0 6	1830.0 8	948.0 8	500.0 10	263.0 11	198.0 12	154.0 12	165.0 11	141.0 9	45.7 10
1965	14100.0 1	11800.0 1	6340.0 1	3150.0 2	1590.0 2	833.0 3	575.0 5	553.0 4	420.0 4	344.0 3
1966	8320.0 2	6550.0 2	3530.0 3	1900.0 3	1080.0 5	646.0 6	524.0 6	431.0 6	350.0 6	225.0 6
1967	2250.0 10	1440.0 11	718.0 12	404.0 12	236.0 12	137.0 13	142.0 13	116.0 13	94.4 13	72.8 13
1968	3650.0 7	3090.0 6	1990.0 6	1200.0 6	886.0 6	675.0 5	586.0 4	500.0 5	366.0 5	206.0 7
1969	6690.0 3	6540.0 3	4850.0 2	3710.0 1	2110.0 1	1210.0 1	851.0 1	672.0 2	498.0 2	312.0 4
1970	1270.0 13	995.0 13	642.0 13	356.0 13	225.0 13	222.0 10	178.0 11	153.0 12	127.0 10	94.5 11
1971	1930.0 12	1490.0 10	846.0 10	624.0 8	362.0 8	217.0 11	198.0 10	179.0 9	123.0 12	77.5 12
1972	2340.0 9	1760.0 9	936.0 9	495.0 11	317.0 10	258.0 9	199.0 9	166.0 10	127.0 11	120.0 9
1973	5120.0 5	4550.0 4	3100.0 4	1810.0 5	1490.0 3	1010.0 2	846.0 2	690.0 1	534.0 1	355.0 2
1974	3740.0 6	2910.0 7	1770.0 7	1000.0 7	680.0 7	443.0 7	349.0 7	306.0 7	303.0 7	235.0 5



## RED RIVER BASIN

07325800 COBB CREEK NEAR EAKLY, OKLA.

LOCATION.--Lat 35°17'26", long 98°35'38", in NW 1/4 NE 1/4 sec.5, T.9 N., R.13 W., Caddo County, near right abutment of bridge on downstream side of State Highway 152, 0.5 mi (0.8 km) downstream from Fivemile Creek, 2.4 mi (3.9 km) south-west of Eakly, 2.5 mi (4.0 km) upstream from Fort Cobb Reservoir, and at mile 22.9 (36.8 km).

DRAINAGE AREA.--132 mi<sup>2</sup> (342 km<sup>2</sup>).

PERIOD OF RECORD.--October 1968 to September 1974.

AVERAGE DISCHARGE.--6 years (1969-74), 20.1 ft<sup>3</sup>/s (0.569 m<sup>3</sup>/s).

REMARKS.--Minor regulation by three small reservoirs having combined surface-area 262 acres (1.06 km<sup>2</sup>) and capacity of 3,100 acre-ft (3.82 hm<sup>3</sup>).

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

COBB CREEK NEAR EAKLY, OKLAHOMA

CLASS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
YEAR																																		
1969																																		
1970	2	2	3	2	2	6	13	2	3	12	15	26	8	32	47	136	29	7	4	2	4	2	1	2	1	1	1	1	1	1	1	1	1	1
1971	5	1	5	1	4	2	2	6	5	10	16	17	19	60	78	92	18	8	2	4	5	1	1	1	1	2	1	1	1	1	1	1	1	1
1972																																		
1973																																		
1974																																		

CFS-DAYS  
8478.3  
4567.4  
4585.4  
5217.6  
11720.1  
9507.6

CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT
1	0.00	1	2191	100.0	9	0.50	38	2135	97.4	18	11.0	463	1009	46.1	27	220	13	33	1.5
2	0.02	1	2190	99.7	10	0.80	27	2047	95.7	19	15.0	260	546	24.9	28	300	9	20	.9
3	0.05	5	2183	99.6	11	1.10	39	2070	94.5	20	21.0	74	266	13.1	29	420	7	11	.5
4	0.07	5	2178	99.4	12	1.50	56	2031	92.7	21	29.0	77	212	9.7	30	580	2	4	.1
5	0.10	7	2175	99.3	13	2.10	74	1973	90.1	22	41.0	37	135	6.2	31	810	2	2	.0
6	0.20	4	2168	99.0	14	2.90	94	1849	86.7	23	57.0	20	98	4.5	32	1100	2	2	.0
7	0.50	7	2154	98.5	15	4.00	149	1805	82.4	24	80.0	16	78	3.6	33				
8	0.80	17	2152	98.2	16	5.00	245	1656	75.6	25	110.0	13	62	2.8	34				
					17	7.80	492	1411	64.4	26	150.0	16	49	2.2					

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

COBB CREEK NEAR EAKLY, OKLAHOMA

YEAR	1	5	7	14	30	60	90	120	183	ANNUAL
1970	0.00	0.07	1.41	3.74	4.81	6.29	6.69	6.81	9.40	18.90
1971	0.00	0.06	0.10	0.80	0.99	2.59	5.39	5.99	6.23	10.60
1972	0.00	0.06	0.04	0.39	2.18	3.73	11.40	14.80	17.10	18.70
1973	0.24	0.35	0.63	0.44	0.66	1.32	1.58	2.79	4.63	17.50
1974	1.50	1.67	2.27	3.24	5.10	8.41	10.50	12.50	15.70	26.50

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

COBB CREEK NEAR EAKLY, OKLAHOMA

YEAR	1	5	7	15	30	60	90	120	183	ANNUAL
1969	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1970	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1971	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1972	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1973	1150.0	2110.0	3380.0	1730.0	1380.0	100.0	86.6	71.6	51.5	32.1
1974	1470.0	2400.0	3460.0	1700.0	1210.0	66.0	45.6	37.6	36.3	26.0

## RED RIVER BASIN

333

07325850 LAKE CREEK NEAR EAKLY, OKLA.

LOCATION.--Lat 35°17'27", long 98°31'44", in NE 1/4 NW 1/4 sec.1, T.9 N., R.13 W., Caddo County, on downstream side of bridge on State Highway 152, 1.2 mi (1.9 km) upstream from Fort Cobb Reservoir, 2.0 mi (3.2 km) southeast of Eakly, and at mile 4.2 (6.8 km).

DRAINAGE AREA.--52.0 mi<sup>2</sup> (134.7 km<sup>2</sup>).

PERIOD OF RECORD.--October 1969 to September 1974.

AVERAGE DISCHARGE.--5 years (1970-74), 4.56 ft<sup>3</sup>/s (0.129 m<sup>3</sup>/s).

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

## LAKE CREEK NEAR EAKLY, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	
YEAR	NUMBER OF DAYS IN CLASS																																			CFS_DAYS
1970	89	4	1		2	2	1	3	4	4	5	9	6	6	19	17	41	70	45	14	6	6	4	2			1		1	2	1				1329.6	
1971	46	14	11	7	21	19	6	30	16	10	15	16	9	18	28	54	13	8	5	3	1	2	3	1	1	3	1	1		1	1	1			1156.6	
1972	60	8	5	3	10	10	7	24	6	5	7	11	6	10	28	35	31	23	31	19	11	3	5		2	3	1		1	1				1193.9		
1973	67	2	3	1	3	5	7	20	7	7	3	29	9	15	18	27	31	25	17	14	9	9	6	3	7	2	3	2	2	2	1			2651.0		
1974	72						2	7	4	9	7	9	1	5	12	41	45	54	46	10	12	4	8	1	4		4	3	3	2				1991.4		

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	334	1826	100.0	9	0.30	35	1217	66.6	18	4.0	144	366	20.0	27	60	8	28	1.5					
1	0.01	28	1492	81.7	10	0.40	37	1182	64.7	19	5.5	60	222	12.2	28	81	8	20	1.0					
2	0.02	20	1464	80.2	11	0.50	74	1145	62.7	20	7.4	39	162	8.9	29	110	7	12	.6					
3	0.03	11	1444	79.1	12	0.70	51	1071	58.7	21	9.9	24	123	6.7	30	150	3	5	.2					
4	0.04	36	1433	78.5	13	0.90	54	1040	57.0	22	13.0	29	99	5.4	31	200	2	2	.1					
5	0.06	30	1397	76.5	14	1.20	105	966	54.0	23	18.0	10	70	3.8	32									
6	0.06	23	1361	74.5	15	1.60	174	881	48.2	24	24.0	10	60	3.3	33									
7	0.10	84	1358	73.3	16	2.20	161	707	38.7	25	33.0	14	50	2.7	34									
8	0.20	37	1254	68.7	17	3.00	180	546	29.9	26	45.0	8	36	2.0										

## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## LAKE CREEK NEAR EAKLY, OKLAHOMA

YEAR	1		3		7		14		30		60		90		120		183		ANNUAL	
1971	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.02	2	0.04	2	0.07	1	0.11	1	2.55	1
1972	0.00	2	0.00	2	0.00	2	0.00	2	0.06	4	0.62	4	1.34	4	1.91	4	3.08	4	5.10	3
1973	0.00	3	0.00	3	0.00	3	0.00	3	0.00	2	0.00	1	0.01	1	0.08	2	0.61	2	4.94	2
1974	0.00	4	0.00	4	0.00	4	0.00	4	0.00	3	0.14	3	0.26	3	1.24	3	3.07	3	6.04	4

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## LAKE CREEK NEAR EAKLY, OKLAHOMA

YEAR	1		3		7		15		30		60		90		120		183		ANNUAL	
1970	124.0	4	51.0	5	27.8	5	20.2	4	13.8	4	10.0	4	9.0	3	7.8	3	6.3	3	3.6	3
1971	200.0	2	139.0	2	74.0	2	45.7	2	23.4	2	12.9	2	8.9	4	7.6	4	5.5	4	3.2	5
1972	120.0	5	58.3	4	30.1	4	19.4	5	12.5	5	9.1	5	7.7	5	6.8	5	5.1	5	3.3	4
1973	330.0	1	169.0	1	93.3	1	51.7	1	41.9	1	29.0	1	22.6	1	18.3	1	13.6	1	7.3	1
1974	131.0	3	80.3	3	44.1	3	22.4	3	14.3	3	11.7	3	9.4	2	9.6	2	7.4	2	5.5	2



## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## COBB CREEK NEAR FORT COBB, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1941	6.40 10	6.63 10	7.34 10	8.41 10	9.03 10	10.30 9	15.50 11	15.40 10	20.40 10	32.20 5
1942	8.70 13	9.17 12	9.41 13	11.00 14	12.60 12	16.30 13	18.50 13	29.10 16	59.00 19	79.60 17
1943	10.00 15	10.00 15	10.90 16	11.70 15	13.60 14	24.60 16	28.10 18	34.30 18	44.00 16	54.20 11
1944	5.40 7	5.40 7	5.54 7	6.14 7	6.68 8	7.34 6	8.37 6	12.00 7	16.30 6	39.10 7
1945	10.00 16	10.00 16	10.60 15	12.30 16	14.70 15	18.00 14	22.20 14	24.10 12	31.50 13	67.40 16
1946	14.00 18	14.00 18	14.90 18	15.30 18	17.10 18	25.70 18	38.80 19	45.00 19	47.50 18	94.60 19
1947	10.00 17	10.30 17	13.40 17	14.00 17	15.80 17	22.90 15	26.40 15	26.70 14	31.50 14	56.60 13
1948	6.00 9	6.00 9	6.13 9	6.42 8	6.57 6	7.41 7	8.34 5	9.70 5	19.00 9	55.50 12
1949	7.90 12	9.30 14	9.53 14	9.71 11	9.90 11	10.20 8	11.50 8	13.00 9	18.00 8	43.40 9
1950	8.90 14	9.17 13	9.40 12	10.10 13	12.80 13	14.40 12	15.30 10	18.00 11	22.10 11	94.20 18
1951	17.00 19	17.30 19	20.40 19	22.90 19	23.20 19	25.30 17	27.40 17	29.50 17	34.40 15	60.00 14
1952	5.80 8	5.93 8	6.07 8	6.94 9	8.08 9	10.60 10	11.50 9	12.70 8	16.50 7	45.60 10
1953	4.10 6	4.20 6	4.41 6	4.65 6	4.83 5	5.38 4	6.75 4	7.97 4	11.60 4	28.90 4
1954	3.80 5	4.00 5	4.31 5	4.63 5	4.64 7	11.90 11	15.60 12	25.20 13	26.00 12	36.80 6
1955	1.40 2	1.50 2	1.63 2	1.74 2	2.31 2	2.66 2	3.21 2	3.89 2	6.21 2	20.10 2
1956	7.40 11	7.97 11	8.89 11	10.00 12	14.90 16	26.20 19	26.40 16	28.00 15	45.40 17	66.40 15
1957	0.20 1	0.20 1	0.24 1	0.57 1	0.51 1	0.70 1	1.74 1	3.20 1	5.43 1	14.20 1
1958	3.20 4	3.20 4	3.30 4	3.61 4	4.23 4	6.26 5	8.80 7	9.79 6	12.60 5	40.50 8
1959	1.40 3	1.97 3	2.03 3	2.26 3	3.05 3	4.14 3	4.75 3	6.19 3	9.22 3	23.20 3

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## COBB CREEK NEAR FORT COBB, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1940	1610.0 11	722.0 15	533.0 16	166.0 18	41.1 19	53.7 19	51.3 19	44.0 19	36.6 19	26.6 18
1941	966.0 16	866.0 16	508.0 12	289.0 10	228.0 7	210.0 3	155.0 3	125.0 4	94.9 4	57.7 7
1942	1760.0 9	1010.0 9	533.0 10	500.0 8	198.0 10	126.0 11	102.0 11	87.6 10	79.2 10	69.0 5
1943	660.0 17	583.0 17	326.0 17	219.0 15	131.0 15	82.7 15	69.4 13	62.7 13	57.8 13	40.8 12
1944	3850.0 4	1570.0 5	757.0 5	442.0 5	238.0 6	147.0 8	150.0 4	137.0 3	103.0 3	63.0 4
1945	5730.0 2	2280.0 2	1080.0 2	567.0 2	324.0 2	241.0 2	203.0 2	193.0 2	148.0 2	96.7 2
1946	2890.0 5	2060.0 3	1050.0 3	521.0 3	271.0 5	169.0 6	126.0 8	105.0 8	87.1 5	60.8 5
1947	1980.0 7	885.0 12	574.0 7	374.0 6	213.0 8	171.0 5	138.0 6	113.0 6	87.1 6	55.6 8
1948	1650.0 10	1070.0 7	525.0 11	268.0 12	166.0 11	99.8 12	76.2 12	71.0 12	60.5 12	41.1 11
1949	9440.0 1	5210.0 1	2540.0 1	1370.0 1	804.0 1	429.0 1	299.0 1	235.0 1	179.0 1	98.7 1
1950	1190.0 15	892.0 11	560.0 8	374.0 7	213.0 9	139.0 9	127.0 7	109.0 7	84.1 7	58.1 6
1951	1530.0 12	1010.0 10	579.0 6	299.0 9	274.0 4	159.0 7	118.0 9	102.0 9	79.6 9	50.2 9
1952	1280.0 13	803.0 14	574.0 15	207.0 16	121.0 16	84.9 13	68.4 14	60.1 14	49.5 14	31.8 14
1953	2250.0 6	1130.0 6	537.0 9	271.0 11	142.0 13	79.6 16	56.6 16	56.7 15	47.9 16	31.1 16
1954	844.0 19	493.0 19	235.0 19	136.0 19	100.0 18	65.3 17	54.9 18	47.7 18	41.0 18	29.4 17
1955	3920.0 3	1730.0 4	850.0 4	463.0 4	313.0 3	188.0 4	154.0 5	118.0 5	84.1 8	49.0 10
1956	1850.0 8	1060.0 8	505.0 13	255.0 13	140.0 14	83.0 14	64.6 15	55.5 16	49.0 15	31.6 15
1957	854.0 18	557.0 18	300.0 18	219.0 19	143.0 12	128.0 10	108.0 10	87.3 11	63.3 11	36.3 13
1958	1190.0 14	881.0 13	421.0 14	205.0 17	108.0 17	60.4 18	55.1 17	49.8 17	41.2 17	26.3 19
1959	72.0 20	31.0 20	27.6 20	24.5 20	23.0 20	22.2 20	21.7 20	20.1 20	16.1 20	9.2 20

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

COBB CREEK NEAR FORT COBB, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34		
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS		
1960	1	16	22	101	43	47	76	4	4								1	1																		1074.2	
1961	1	16	13	35	63	114	93	13	3	1	1	1	2	1	1							1			1											1434.4	
1962				5	19	112	176	26	8	1	2	3	1	2					1	1	1				2	2		1		1	1					1434.4	
1963	2	6	16	9	62	110	79	28		1			1	4	1	5	11	1	1	3	18	1	1	1	1	1	1			1	2					1434.4	
1964				23	61	136	79	7	7	5			1	2	1	1	10	3	18	2	3	2	3						1							1434.4	
1965				2	20	27	48	90	71	23	9	5			9	3	3	6	2	12	11	3	7	2	2	2	2	4					1	1	1	1	1004.4
1966				8	13	34	58	71	7	12	14	4			51	24	7	6	7	4	6	8	8	3	7	3	1	1	2				1	4	1	1547.3	
1967				1	9	13	54	170	46	30	2			2	5	1	2	7	1	2	2															1547.3	
1968						17	38	62	137	16	10	4	1	2	17	2		2	5	7	2	1	4	9	1	1	1	1	3	1		2		1		10095.0	
1969				2	56	94	83	47	21	3	3	2	1	3			4	8	2	6	6	1	9	2	1	1	1	1	1	3	2	1	3			13429.8	
1970				8	73	222	25	3		1	2			1	1		4	4	5	5	4	6	1													2516.6	
1971				13	44	223	51	11	4	3	1		1	2	2		4				1	1														1071.5	
1972				16	41	179	46	14	3				2				1		1	1	5	2														1265.5	
1973				8	60	101	100	61	9	3	1	1					1																			1498.1	
1974				1	17	51	166	64	10	7	1	1	1									1	1		23	1										4469.7	

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	5474	100.0	9	3.80	406	1773	32.4	18	30.0	45	343	7.2	27	240	10	50	.9
1	0.60	0	5474	100.0	10	4.80	168	867	15.8	19	38.0	36	348	6.4	28	310	6	40	.7
2	0.80	0	5474	100.0	11	6.00	62	674	12.4	20	48.0	58	312	5.7	29	380	8	34	.6
3	1.00	4	5474	100.0	12	7.60	38	617	11.3	21	61.0	38	254	4.6	30	480	7	26	.4
4	1.20	79	5475	99.9	13	9.60	16	579	10.6	22	76.0	32	216	3.9	31	610	3	19	.3
5	1.50	334	5396	98.5	14	12.00	11	563	10.3	23	96.0	45	164	3.4	32	770	5	16	.2
6	1.90	926	5062	92.4	15	15.00	94	552	10.1	24	120.0	38	139	2.5	33	970	8	11	.2
7	2.40	1156	4136	75.5	16	18.00	41	458	8.4	25	150.0	41	101	1.8	34	1200	3	3	.0
8	3.00	1207	2960	54.4	17	24.00	24	417	7.6	26	190.0	10	60	1.1					

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

COBB CREEK NEAR FORT COBB, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1960	0.60 1	0.60 1	0.63 1	0.86 1	1.04 1	1.63 2	1.90 2	1.95 2	2.14 3	2.68 2
1961	1.10 3	1.20 4	1.20 2	1.29 2	1.77 6	2.20 6	2.29 6	2.27 6	2.42 6	3.05 4
1962	2.20 14	2.20 14	2.23 14	2.45 14	2.71 13	3.45 13	3.53 13	3.53 13	4.13 12	4.37 6
1963	2.20 15	2.23 15	2.26 15	2.62 15	2.62 14	2.94 13	3.23 10	3.28 11	3.50 11	14.60 11
1964	1.00 2	1.07 2	1.21 3	1.44 4	1.63 3	2.63 11	3.26 11	3.26 10	3.45 4	12.00 10
1965	2.00 13	2.00 13	2.00 12	2.08 12	2.24 11	2.69 12	3.27 12	3.30 12	6.19 13	17.10 13
1966	1.40 6	1.43 6	1.53 6	1.59 6	1.75 5	2.45 8	6.23 14	11.60 14	42.00 15	59.80 15
1967	1.60 9	1.63 9	1.71 10	1.94 10	2.40 12	2.68 10	2.77 8	3.20 8	3.26 8	5.47 7
1968	1.40 7	1.47 7	1.53 7	1.70 7	2.13 10	2.52 9	2.68 9	3.24 9	3.50 10	10.60 9
1969	1.70 10	1.93 12	2.10 13	2.33 13	2.62 15	2.65 14	10.70 15	11.90 15	27.40 14	47.30 14
1970	1.90 12	1.90 11	1.90 11	1.94 11	2.10 9	2.35 7	2.46 7	2.46 7	2.55 7	16.60 12
1971	1.50 8	1.53 8	1.66 8	1.86 9	1.99 8	2.04 4	2.10 5	2.16 4	2.27 4	6.69 8
1972	1.20 4	1.20 3	1.30 4	1.34 3	1.67 4	2.03 3	2.07 4	2.13 3	2.13 2	2.91 3
1973	1.20 5	1.30 5	1.39 5	1.46 5	1.55 2	1.59 1	1.74 1	1.77 1	1.81 1	3.48 5
1974	1.70 11	1.70 10	1.71 9	1.75 8	1.86 7	2.06 5	2.06 5	2.18 5	2.34 5	2.61 1

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

COBB CREEK NEAR FORT COBB, OKLAHOMA

YEAR	1	3	7	15	50	60	90	120	183	ANNUAL
1960	27.0 14	10.9 14	5.5 15	4.3 15	4.2 14	4.1 14	4.0 14	3.9 14	3.4 14	2.9 13
1961	106.0 11	43.8 13	20.9 13	12.1 13	8.2 13	6.5 12	5.3 12	5.1 12	4.7 12	3.9 11
1962	482.0 6	345.0 6	256.0 6	155.0 8	70.6 8	37.7 4	26.5 9	20.6 9	15.1 9	9.5 9
1963	536.0 5	500.0 5	327.0 5	158.0 5	96.9 6	50.6 6	37.5 6	35.6 5	31.2 5	17.5 5
1964	344.0 7	271.0 8	185.0 8	106.0 9	68.0 9	43.0 7	37.5 7	30.7 7	21.4 7	12.4 6
1965	1230.0 1	1120.0 2	624.0 2	312.0 2	157.0 4	79.7 4	54.1 4	48.4 4	42.0 4	27.5 4
1966	1200.0 3	1140.0 1	1020.0 1	547.0 1	318.0 1	167.0 1	124.0 1	100.0 1	77.2 1	42.4 1
1967	327.0 6	288.0 7	218.0 7	145.0 6	75.0 7	39.5 6	27.6 8	21.6 8	18.0 8	10.8 8
1968	1220.0 2	832.0 4	362.0 4	202.0 4	166.0 3	127.0 2	98.7 2	75.1 2	51.5 3	27.6 3
1969	1040.0 4	948.0 3	604.0 3	286.0 3	174.0 2	111.0 3	78.9 3	63.9 3	62.5 2	36.8 2
1970	113.0 10	41.7 10	77.3 10	68.1 10	54.4 10	28.7 10	19.9 10	15.5 10	11.1 10	6.9 10
1971	67.0 12	48.3 12	34.0 12	17.4 12	10.1 12	6.2 13	5.1 13	4.4 13	3.7 13	2.9 14
1972	61.0 13	60.7 11	59.1 11	34.9 11	18.3 11	10.1 11	7.5 11	6.2 11	4.9 11	3.5 12
1973	14.0 15	4.7 15	6.8 14	4.4 14	4.1 15	3.6 15	3.5 15	3.3 15	3.0 15	2.5 15
1974	154.0 9	151.0 9	146.0 9	143.0 7	118.0 5	60.5 5	41.1 5	31.6 6	21.9 6	12.2 7



## RED RIVER BASIN

337

## 07326500 WASHITA RIVER AT ANADARKO, OKLA.

LOCATION.--Lat 35°05'06", long 98°14'35", in NW 1/4 sec.15, T.7 N., R.10 W., Caddo County, at left bank 35 ft (10.7 m) upstream from bridge on U.S. Highway 281 at north edge of Anadarko, 8.1 mi (13.0 km) upstream from Sugar Creek, and about 305.2 (491.1 km).

DRAINAGE AREA.--3,656 mi<sup>2</sup> (9,460 km<sup>2</sup>).

PERIOD OF RECORD.--January 1903 to September 1908; October 1935 to February 1938; October 1963 to September 1974. Statistical summaries for this station are divided into unregulated and regulated periods.

AVERAGE DISCHARGE.--7 years (1904-8, 1936-37), 584 ft<sup>3</sup>/s (16.5 m<sup>3</sup>/s); 11 years (1964-74), 231 ft<sup>3</sup>/s (6.54 m<sup>3</sup>/s).

REMARKS.--Some regulation by low-water dams upstream and since March 1959, by Fort Cobb Reservoir since February 1961, by Foss Reservoir and by numerous flood-retarding structures.

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

## WASHITA RIVER AT ANADARKO, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS
1904		7	27	38	15	14	15	5	15	12	18	13	17	11	4	4	4	1	4	1	1	4													96350.0
1905	19	31	29	12	17	17	37	33	32	29	25	18	11	11	14	8	2	4	5	1	2	2			2	2	2								142376.0
1906				5	24	19	133	20	27	31	17	12	28	12	6	7	5	2	2	2	4	5													127956.0
1907					6	36	52	63	45	24	39	23	21	10	6	6	4	3	2	5	12	3	1	2											264581.0
1908					3			45	88	66	28	45	8	4	2	32	1	3	3	3	2	3	4	1	3	2	7	4	5	1	2	1			586662.0
1936	1		9	19	71	91	58	10	9	5	19	5	7	5	10	5	3	11	8	2	4	7	3			1		1	2						168601.0
1937		2	9	41	22	73	59	14	11	12	10	10	7	7	4	1	2	3	1	3	3	5			3										108444.0

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	2558	100.0	9	210.00	146	1314	51.4	18	1200.0	59	220	8.6	27	7000	4	30	1.1
1	45.00	20	2558	100.0	10	260.00	197	1168	45.7	19	1500.0	25	161	6.3	28	8500	5	26	1.0
2	55.00	40	2538	99.2	11	310.00	222	971	38.0	20	1800.0	15	136	5.3	29	10000	8	21	.8
3	66.00	74	2498	97.7	12	380.00	148	749	29.3	21	2200.0	19	121	4.7	30	13000	4	13	.5
4	81.00	78	2424	94.8	13	460.00	137	601	23.5	22	2600.0	31	102	4.0	31	15000	5	9	.3
5	98.00	389	2346	91.7	14	560.00	114	464	18.1	23	3200.0	17	71	2.8	32	18000	1	4	.1
6	120.00	214	1957	76.5	15	680.00	67	350	13.7	24	3900.0	11	54	2.1	33	22000	2	3	.1
7	140.00	311	1743	68.1	16	830.00	39	263	11.1	25	4700.0	8	43	1.7	34	27000	1	1	.0
8	180.00	118	1432	56.0	17	1000.00	24	244	9.5	26	5800.0	5	35	1.4					

## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## WASHITA RIVER AT ANADARKO, OKLAHOMA

YEAR	1		3		7		14		30		60		90		120		183		ANNUAL	
1904	55.00	3	55.00	2	60.00	2	63.00	2	65.20	2	70.90	2	77.70	2	83.40	2	95.20	1	546.00	5
1905	46.00	2	46.00	1	46.00	1	46.00	1	51.70	1	57.90	1	64.90	1	73.30	1	96.90	2	282.00	1
1906	85.00	4	90.00	4	95.70	4	98.00	4	104.00	4	141.00	4	145.00	4	155.00	4	159.00	4	401.00	2
1907	110.00	5	110.00	5	119.00	5	140.00	5	175.00	5	242.00	5	299.00	5	343.00	5	382.00	5	462.00	4
1908	158.00	6	158.00	6	161.00	6	172.00	6	213.00	6	305.00	6	347.00	6	353.00	6	1010.00	6	1050.00	6
1937	45.00	1	60.30	3	65.90	3	72.10	3	87.50	3	118.00	3	118.00	3	119.00	3	150.00	3	448.00	3

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## WASHITA RIVER AT ANADARKO, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL								
1904	3180.0	6	3020.0	6	2300.0	6	1350.0	6	927.0	7	704.0	7	659.0	6	588.0	7	426.0	7
1905	5900.0	4	5800.0	4	4770.0	4	2850.0	4	1860.0	4	1230.0	4	951.0	4	792.0	4	656.0	4
1906	3060.0	7	2950.0	7	2170.0	7	1350.0	7	1020.0	6	724.0	6	718.0	5	594.0	6	540.0	5
1907	10200.0	2	8950.0	2	6530.0	2	4040.0	2	3340.0	2	2410.0	2	1840.0	2	1490.0	2	1110.0	2
1908	27200.0	1	25400.0	1	17500.0	1	12600.0	1	9070.0	1	5480.0	1	3910.0	1	3080.0	1	2180.0	1
1936	9400.0	3	8700.0	3	5440.0	3	3570.0	3	2250.0	3	1610.0	3	1150.0	3	893.0	3	753.0	3
1937	4480.0	5	4160.0	5	2490.0	5	1560.0	5	1500.0	5	769.0	5	622.0	7	607.0	5	452.0	6

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

## WASHITA RIVER AT ANADARKO, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS	
1964	1	3	2	5		2	3	1		1	1	2	2	9	10	33	62	110	42	28	16	6	4	9	7	1	1	1	3						42259.1	
1965														2	16	28	31	15	6	31	100	50	24	19	9	8	5	3	5	4	2	4	1	2	136862.0	
1966														3	7	10	13	10	26	24	28	80	73	34	20	7	10	3	5	8	1		1	2	107851.0	
1967						2		1	4	2	1	3	5	7	18	39	119	97	20	13	6	7	8	8	2	1		1	2						31437.4	
1968														3	14	38	54	67	59	23	20	21	9	12	6	14	9	3	6	4	4				90634.0	
1969																	5	32	34	75	82	49	19	19	9	10	5	7	3	5	5	2	4		138951.0	
1970							1	2	5	7	6	1	6	20	7	16	17	13	87	135	20	3	5	7	3	1	2	1								40104.8
1971										5	10	7	29	22	16	27	83	94	26	9	7	4	7	6	5	2	2	1	3							26546.7

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	1	2922	100.0	9	5.40	20	2885	98.7	18	78.0	281	1583	54.2	27	1100	23	92	3.1					
1	0.50	3	2921	100.0	10	7.20	15	2865	98.0	19	100.0	340	1302	44.6	28	1500	27	69	2.3					
2	0.70	2	2918	99.9	11	9.70	35	2850	97.5	20	140.0	328	962	32.9	29	2000	14	42	1.4					
3	0.90	5	2916	99.8	12	13.00	38	2815	96.3	21	190.0	216	634	21.7	30	2700	12	28	.9					
4	1.20	0	2911	99.6	13	18.00	64	2777	95.0	22	260.0	109	418	14.3	31	3700	7	16	.5					
5	1.60	4	2911	99.6	14	24.00	102	2713	92.8	23	340.0	99	309	10.6	32	5000	7	9	.3					
6	2.20	4	2907	99.5	15	32.00	250	2611	89.4	24	460.0	45	210	7.2	33	6700								
7	3.00	4	2903	99.3	16	43.00	392	2361	80.8	25	620.0	46	165	5.6	34	9000	2	2	.0					
8	4.00	14	2899	99.2	17	58.00	386	1969	67.4	26	840.0	27	119	4.1										

## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## WASHITA RIVER AT ANADARKO, OKLAHOMA

YEAR	1		3		7		14		30		60		90		120		183		ANNUAL	
1965	0.00	1	0.60	1	0.77	1	1.10	1	9.74	1	38.30	3	91.90	4	110.00	5	154.00	5	232.00	4
1966	21.00	5	22.70	5	28.00	5	29.80	5	40.30	5	56.30	5	152.00	6	206.00	7	447.00	7	460.00	7
1967	16.00	4	16.70	4	18.40	4	26.10	4	31.90	4	50.90	4	54.50	3	58.40	3	61.20	3	88.80	3
1968	1.60	2	2.33	2	3.63	2	6.74	3	20.30	3	34.80	2	40.30	2	45.30	2	51.70	2	84.80	2
1969	63.00	7	64.70	7	68.30	7	80.00	7	89.80	7	138.00	7	174.00	7	186.00	6	189.00	6	320.00	5
1970	55.00	6	55.70	6	61.10	6	63.20	6	76.90	6	89.20	6	100.00	5	100.00	4	103.00	4	331.00	6
1971	2.70	3	3.77	3	4.46	3	6.11	2	15.50	2	22.50	1	36.00	1	37.30	1	42.80	1	80.80	1

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## WASHITA RIVER AT ANADARKO, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL										
1964	2700.0	5	1910.0	5	953.0	5	503.0	6	336.0	5	254.0	5	198.0	5	194.0	5	162.0	5	115.0	5
1965	10200.0	1	8230.0	1	5240.0	1	2870.0	2	1450.0	2	765.0	4	535.0	4	551.0	4	447.0	3	375.0	2
1966	6410.0	2	5410.0	2	3290.0	3	1860.0	3	1390.0	3	852.0	2	691.0	3	578.0	3	473.0	2	295.0	3
1967	1930.0	6	1570.0	6	902.0	6	581.0	5	327.0	6	190.0	7	165.0	7	136.0	8	112.0	7	86.1	7
1968	3440.0	4	2990.0	4	2160.0	4	1410.0	4	1030.0	4	832.0	3	718.0	2	609.0	2	438.0	4	248.0	4
1969	5530.0	3	5390.0	3	4350.0	2	3700.0	1	2290.0	1	1340.0	1	957.0	1	761.0	1	567.0	1	381.0	1
1970	1320.0	8	1010.0	8	641.0	8	366.0	8	238.0	8	233.0	6	192.0	6	169.0	6	146.0	6	110.0	6
1971	1480.0	7	1150.0	7	678.0	7	497.0	7	301.0	7	176.0	8	160.0	8	143.0	7	101.0	8	72.7	8

## RED RIVER BASIN

339

07327000 SUGAR CREEK NEAR GRACEMONT, OKLA.

LOCATION.--Lat 35°10'30", long 98°15'20", in NW 1/4 NE 1/4 sec.16, T.8 N., R.10 W., Caddo County, on downstream side of county road bridge, 1.0 mi (1.6 km) south of Gracemont, 2.1 mi (3.4 km) downstream from Yellow Creek, 1.1 mi (1.8 km) upstream from bridge on U.S. Highway 281, and at mile 9.9 (15.9 km).

DRAINAGE AREA.--208 mi<sup>2</sup> (539 km<sup>2</sup>).

PERIOD OF RECORD.--October 1955 to September 1974. Statistical summaries for this station are divided into unregulated and regulated periods.

AVERAGE DISCHARGE.--7 years (1956-62), 15.1 ft<sup>3</sup>/s (0.428 m<sup>3</sup>/s); 12 years (1963-74), 14.4 ft<sup>3</sup>/s (0.408 m<sup>3</sup>/s).

REMARKS.--Some regulation by flood-retarding structures and some small diversions for irrigation above station.

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

SUGAR CREEK NEAR GRACEMONT, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
YEAR	NUMBER OF DAYS IN CLASS																																		CFS-DAYS
1956	115	2	1	1		3		5	2	1	3	2	4	42	73	60	15	13	8	2	2	2		8				2							3278.5
1957	222	2	1	1	2	2	4	5	4	3	6	9	13	5	6	8	4	16	10	8	7	6	3	4	5	3	1	1							4116.8
1958	110	7	2	3	4	7	2	8	19	7	16	16	19	43	27	21	8	13	11	9	3	2	1	1	1	1	2			1	1			3350.5	
1959	95	1	4	3	1	4	4	5	14	13	33	65	23	26	19	17	6	6	5	3	5	1	3	1	1	2			1	2		2		4490.6	
1960	19	16	3	1	6	8	5	4	6	6	4	5	2	3	8	13	41	59	73	34	14	10	5	5			2	3		2	1	1	1	1	9438.3
1961		1	17		1	1	2	5	5	2	3	5	9	7	17	18	23	47	72	74	32	10	2	5		3	1						2	1	7051.7
1962		22	5	1		1	4		4	7	2	6	11	15	14	8	10	42	74	84	27	12	2	4	2		3	2		1		2		7058.8	

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	584	2557	100.0	9	1.50	35	1750	68.4	18	17.0	265	560	21.9	27	20.0	3	23	.8
1	0.10	50	1973	77.2	10	2.00	78	1715	67.1	19	22.0	115	295	11.5	28	26.0	5	20	.7
2	0.20	12	1923	75.2	11	2.60	117	1637	64.0	20	29.0	53	180	7.0	29	34.0	4	15	.5
3	0.30	10	1911	74.7	12	3.40	83	1520	59.4	21	39.0	25	127	5.0	30	44.0	6	11	.4
4	0.40	15	1901	74.3	13	4.40	150	1437	56.2	22	50.0	26	102	4.0	31	58.0	4	5	.1
5	0.50	30	1886	73.8	14	5.80	159	1287	50.3	23	66.0	12	76	3.0	32	76.0	1	1	.0
6	0.70	20	1856	72.6	15	7.60	152	1128	44.1	24	87.0	16	64	2.5	33				
7	0.90	32	1836	71.8	16	10.00	163	976	38.2	25	110.0	13	48	1.9	34				
8	1.10	54	1804	70.6	17	13.00	253	813	31.8	26	150.0	12	35	1.4					

## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

SUGAR CREEK NEAR GRACEMONT, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1957	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	2.85 1
1958	0.00 2	0.00 2	0.00 2	0.00 2	0.00 2	0.06 3	0.42 3	0.39 3	0.70 2	13.20 3
1959	0.00 3	0.00 3	0.00 3	0.00 3	0.00 3	0.00 2	0.02 2	0.03 2	1.08 3	7.90 2
1960	0.00 4	0.00 4	0.00 4	0.00 4	0.25 5	3.63 5	6.47 5	11.10 5	22.40 6	30.40 6
1961	0.00 5	0.00 5	0.00 5	0.03 5	0.10 4	0.51 4	1.61 4	2.90 4	11.10 4	17.00 4
1962	0.00 6	0.07 6	0.09 6	0.38 6	1.84 6	8.59 6	15.00 6	13.60 6	17.80 5	18.50 5

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

SUGAR CREEK NEAR GRACEMONT, OKLAHOMA

YEAR	1		3		7		15		30		60		90		120		183		ANNUAL	
1956	255.0	7	117.0	7	100.0	7	57.1	7	32.5	7	19.2	7	14.5	7	14.4	7	13.3	7	9.0	7
1957	318.0	6	221.0	6	152.0	5	98.9	3	67.4	2	56.7	2	43.3	2	33.6	2	22.3	3	11.3	5
1958	568.0	4	365.0	3	181.0	4	88.1	4	45.4	5	26.5	6	25.7	5	22.4	5	17.1	6	9.2	6
1959	756.0	2	420.0	2	187.0	2	87.5	5	58.3	4	36.3	3	27.8	4	21.7	6	22.4	2	12.3	4
1960	1220.0	1	751.0	1	405.0	1	201.0	1	108.0	1	60.6	1	51.8	1	45.5	1	38.4	1	25.8	1
1961	755.0	3	288.0	5	135.0	6	71.4	6	41.7	6	27.9	5	25.2	6	23.4	4	21.7	5	19.3	2
1962	544.0	5	325.0	4	182.0	3	111.0	2	64.6	3	36.2	4	28.7	3	24.7	3	22.0	4	19.3	3

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

## SUGAR CREEK NEAR GRACEMONT, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	
YEAR	NUMBER OF DAYS IN CLASS																																		CFS-DAYS	
1963	56	3	2	4	3	10	6	11	17	15	18	16	31	50	53	31	14	10	5	3	3	1				1		1	1							3370.5
1964	95					17	12	15	5	10	11	18	28	34	49	40	15	3	5	2	2	1	1		2		1									2167.2
1965	112	3		2	3	4	2	10	11	14	23	37	44	23	21	11	6	5	4	3	7	4	2	3	2	2	1	1	2	1	1		1			10417.8
1966	48	1	2	1	1	2	1	8	8	22	8	9	15	51	62	34	27	19	22	12	7	2	1	1	1										4311.2	
1967	43	7	10	3	5	5	11	10	39	29	39	48	29	30	25	14	8	2	4	1	1												1			3428.0
1968		3	3	4	4	3	28	6	25	32	19	21	22	49	40	41	15	16	10	7	8	5		1	1	3									5877.5	
1969					1		5	19	13	13	6	14	21	18	16	18	54	44	40	8	9	3	5	1	2		1	1	1	1		1	1		12501.9	
1970	5	33	26	11	2	5	4	8	5	7	10	17	56	43	41	26	22	17	14	4	4	2			1		1								4345.3	
1971	58	44	14	8	13	10	16	29	14	31	32	23	22	6	11	6	7	7	2	5	1	3	2	1											1732.5	

CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT
0	0.00	374	3287	100.0	9	1.80	177	2314	70.4	18	25.0	111	323	9.8	27	350	3	14	.4
1	0.10	127	2913	88.6	10	2.50	176	2137	65.0	19	34.0	83	212	6.4	28	470	3	11	.3
2	0.20	54	2786	84.8	11	3.30	202	1961	59.7	20	46.0	39	129	3.9	29	630	3	8	.2
3	0.30	39	2752	83.1	12	4.40	242	1759	53.5	21	61.0	31	90	2.7	30	840	1	5	.1
4	0.40	47	2693	81.4	13	5.90	291	1467	44.6	22	82.0	13	59	1.8	31	1100	2	4	.1
5	0.60	52	2646	80.5	14	7.90	323	1176	35.8	23	110.0	13	46	1.4	32	1500	2	2	.0
6	0.80	57	2594	78.9	15	11.00	206	853	26.0	24	150.0	7	33	1.0	33				
7	1.00	129	2537	77.2	16	14.00	184	647	19.7	25	200.0	6	26	0.8	34				
8	1.40	94	2408	73.3	17	19.00	140	463	14.1	26	260.0	6	20	0.6					

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	374	3287	100.0	9	1.80	177	2314	70.4	18	25.0	111	323	9.8	27	350	3	14	.4					
1	0.10	127	2913	88.6	10	2.50	176	2137	65.0	19	34.0	83	212	6.4	28	470	3	11	.3					
2	0.20	54	2786	84.8	11	3.30	202	1961	59.7	20	46.0	39	129	3.9	29	630	3	8	.2					
3	0.30	39	2752	83.1	12	4.40	292	1759	53.5	21	61.0	31	90	2.7	30	840	1	5	.1					
4	0.40	47	2693	81.4	13	5.90	291	1467	44.6	22	82.0	13	59	1.8	31	1100	2	4	.1					
5	0.60	52	2646	80.5	14	7.90	323	1176	35.8	23	110.0	13	46	1.4	32	1500	2	2	.0					
6	0.80	57	2594	78.9	15	11.00	206	853	26.0	24	150.0	7	33	1.0	33									
7	1.00	129	2537	77.2	16	14.00	184	647	19.7	25	200.0	6	26	0.8	34									
8	1.40	94	2408	73.3	17	19.00	140	463	14.1	26	260.0	6	20	0.6										

## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## SUGAR CREEK NEAR GRACEMONT, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1964	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.94 6	2.12 5	3.07 4	4.09 4	7.49 3
1965	0.00 2	0.00 2	0.00 2	0.00 2	0.00 2	0.00 1	0.03 1	0.03 1	0.01 1	4.85 1
1966	0.00 3	0.00 3	0.00 3	0.00 3	0.00 3	0.04 2	5.81 7	9.07 7	16.20 7	34.60 8
1967	0.00 4	0.00 4	0.00 4	0.00 4	0.07 4	0.55 5	1.45 4	4.94 5	5.43 5	6.93 2
1968	0.10 7	0.10 6	0.10 6	0.11 6	0.13 6	0.35 4	1.14 3	1.59 3	1.92 3	10.20 5
1969	0.20 8	0.23 7	0.31 7	0.65 7	4.95 8	10.30 8	14.10 8	13.20 8	18.00 8	24.10 6
1970	0.00 5	0.70 8	1.21 8	1.81 8	2.35 7	5.43 7	5.42 6	6.52 6	6.64 6	26.80 7
1971	0.00 6	0.00 5	0.04 5	0.04 5	0.12 5	0.17 3	0.54 2	1.22 2	1.91 2	9.10 4

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## SUGAR CREEK NEAR GRACEMONT, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1963	437.0 5	224.0 5	113.0 5	55.9 6	32.1 6	17.6 7	14.2 8	12.5 8	11.5 7	9.2 7
1964	227.0 7	162.0 7	95.0 7	48.5 7	27.8 7	17.4 8	14.3 7	13.5 7	10.8 8	5.9 8
1965	3620.0 1	1730.0 1	437.0 1	469.0 1	235.0 1	117.0 1	78.2 2	66.2 2	53.4 2	28.5 2
1966	159.0 6	78.0 4	56.7 4	35.6 4	24.9 8	18.0 6	17.8 6	15.5 6	15.6 6	11.8 5
1967	1200.0 3	472.0 3	216.0 3	115.0 3	64.4 3	37.0 5	26.7 5	21.5 5	16.5 5	9.4 6
1968	328.0 6	224.0 6	112.0 6	71.4 5	57.1 4	42.0 3	33.3 3	29.1 3	24.9 3	16.1 3
1969	1510.0 2	1180.0 2	636.0 2	334.0 2	189.0 2	116.0 2	87.6 1	74.2 1	55.3 1	34.3 1
1970	826.0 4	301.0 4	184.0 4	96.5 4	51.3 5	37.5 4	31.7 4	26.5 4	20.4 4	11.9 4
1971	134.0 9	100.0 8	62.3 8	46.6 8	24.8 9	13.5 9	10.5 9	9.1 9	8.4 9	4.7 9

## RED RIVER BASIN

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07327490 LITTLE WASHITA RIVER NEAR NINNEKAH, OKLA.

LOCATION.--Lat 34°56'41", long 97°57'08", in SE 1/4 SE 1/4 sec.32, T.6 N., R.7 W., Grady County, at left bank on downstream side of bridge on U.S. Highway 81, 1.0 mi (1.6 km) upstream from Rock Creek, 1.5 mi (2.4 km) west of Ninneka, 5.5 mi (8.8 km) south of Chickasha, and at mile 8.4 (13.5 km).

DRAINAGE AREA.--208 mi<sup>2</sup> (539 km<sup>2</sup>).

PERIOD OF RECORD.--October 1963 to September 1974.

AVERAGE DISCHARGE.--11 years (1964-74), 23.8 ft<sup>3</sup>/s (0.674 m<sup>3</sup>/s).

REMARKS.--Small diversions above station for irrigation.

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

LITTLE WASHITA RIVER NEAR NINNEKAH, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	
YEAR	NUMBER OF DAYS IN CLASS																																			CFS_DAYS
1964	39	5	7	5	3	8	8	4	15	7	11	24	9	24	71	62	22	8	6	6	2	3	2	6	2	1	1	1	1	1	1	1	1	1	7328.5	
1965	36				5			3	1	6	20	15	26	21	31	65	56	28	14	5	5	2	2	6	2	2	1	1	1	1	1	1	1	1	9010.3	
1966	44			1			1	4	8	4	15	20	41	79	67	34	17	13	6	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	3930.2	
1967	28	3	1	5	4	8	6	9	14	18	22	30	50	97	54	10	8	7	4	1	3	1	1	1	1	1	1	1	1	1	1	1	1	1	3609.8	
1968	7	4	3	4	1	1	6	6	10	24	17	36	44	49	55	48	22	10	7	1	3	2	2	1	1	1	1	1	1	1	1	1	1	1	6936.8	
1969				1		2		2	4	8	24	18	28	25	50	53	44	56	18	11	9	4	2	1	1	1	1	1	1	1	1	1	1	1	10496.6	
1970	65	2	4	4	1	1	2	5	4	11	17	14	56	44	34	34	6	5	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4222.8	
1971	20	8	3	7	6	4	11	6	13	6	36	46	80	64	19	13	8	2	3	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	3657.6	
1972	63	4		4	2	1	3	8	3	5	13	21	47	77	58	28	11	5	2	3	1	1	1	2	1	1	1	1	1	1	1	1	1	1	6717.9	
1973	13	1	1	1	1	2				5	1	13	28	22	56	53	66	37	16	12	6	6	8	3	5	2	2	2	2	2	2	1	1	1	23484.3	
1974										12	7	16	30	10	13	75	126	58	11	6	3	5	5	5	3	2	1								15566.2	

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	308	4016	100.0	9	2.10	75	3436	85.5	18	32.0	271	580	14.4	27	486	7	19	.4										
1	0.10	30	3710	92.5	10	2.80	171	5361	83.6	19	43.0	111	309	7.7	28	650	6	12	.2										
2	0.20	20	3680	91.6	11	3.80	218	3190	79.4	20	58.0	50	148	4.9	29	880	2	6	.1										
3	0.30	31	3660	91.1	12	5.10	318	2472	74.0	21	78.0	33	148	3.7	30	1200	1	4	.0										
4	0.50	22	3620	90.3	13	6.90	493	2654	66.1	22	110.0	23	115	2.9	31	1600	2	3	.0										
5	0.60	27	3607	89.8	14	9.40	545	2161	53.8	23	140.0	24	92	2.3	32	2200	1	1	.0										
6	0.80	31	3580	89.1	15	13.00	419	1916	40.2	24	190.0	22	68	1.7	33														
7	1.10	34	3544	88.3	16	17.00	336	1147	29.8	25	260.0	16	46	1.1	34														
8	1.50	74	3510	87.4	17	25.00	281	861	21.4	26	360.0	11	30	0.7															

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

LITTLE WASHITA RIVER NEAR NINNEKAH, OKLAHOMA

YEAR	1		3		7		14		30		60		90		120		185		ANNUAL
1965	0.00	1	0.00	1	0.00	1	0.00	1	0.23	4	2.35	5	3.43	5	6.66	5	13.30	8	27.30
1966	0.00	2	0.00	2	0.00	2	0.61	8	1.60	8	3.78	7	8.11	8	8.65	6	9.57	6	16.10
1967	0.00	3	0.00	3	0.00	3	0.00	2	0.49	6	1.30	3	3.14	4	5.33	4	5.14	2	8.77
1968	0.00	4	0.00	4	0.00	4	0.00	3	0.20	3	2.15	4	3.01	3	3.37	3	4.95	1	12.60
1969	0.10	8	0.10	8	0.11	8	0.26	7	1.30	7	6.96	9	10.20	9	12.10	9	13.40	9	22.20
1970	0.40	9	0.73	9	1.65	9	2.19	9	2.86	9	4.63	8	6.50	6	8.89	7	9.40	5	26.30
1971	0.00	5	0.00	5	0.00	5	0.00	4	0.00	1	0.08	1	0.41	2	2.34	2	5.97	3	9.54
1972	0.00	6	0.00	6	0.00	6	0.00	5	0.42	5	2.70	6	7.58	7	4.23	8	12.60	7	18.40
1973	0.00	7	0.00	7	0.00	7	0.00	6	0.00	2	0.16	2	0.21	1	0.81	1	8.48	4	24.10
1974	13.00	10	13.00	10	14.10	10	16.30	10	24.90	10	30.70	10	35.50	10	37.90	10	46.60	10	70.10

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

LITTLE WASHITA RIVER NEAR NINNEKAH, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	185	ANNUAL										
1964	2160.0	2	973.0	2	458.0	2	228.0	2	136.0	2	74.8	3	54.1	4	44.5	4	33.3	4	20.0	5
1965	732.0	6	408.0	6	215.0	6	112.0	6	75.0	7	46.1	6	38.2	6	32.3	6	28.5	6	24.7	4
1966	196.0	11	84.0	11	59.0	11	39.8	11	29.5	10	22.4	10	20.6	10	18.1	10	14.9	10	10.8	9
1967	436.0	9	261.0	8	156.0	8	86.4	8	51.7	8	31.9	8	24.1	8	20.0	8	16.0	8	9.9	11
1968	766.0	5	463.0	5	222.0	5	120.0	5	75.2	6	50.1	5	41.2	5	36.4	5	29.5	5	19.0	6
1969	1150.0	4	850.0	3	419.0	3	226.0	3	133.0	3	97.9	2	74.7	2	63.0	3	47.2	3	30.1	3
1970	350.0	10	190.0	10	86.8	10	42.1	10	30.4	9	25.2	9	21.8	9	19.1	9	15.9	9	11.6	8
1971	531.0	8	222.0	9	102.0	9	53.4	9	29.0	11	19.1	11	16.2	11	17.1	11	12.6	11	10.0	10
1972	1420.0	3	632.0	4	300.0	4	148.0	4	80.4	5	44.8	7	36.8	7	30.9	7	24.2	7	18.4	7
1973	2930.0	1	1180.0	1	616.0	1	356.0	1	199.0	1	177.0	1	135.0	1	117.0	1	93.9	1	64.3	1
1974	616.0	7	348.0	7	187.0	7	106.0	7	42.6	4	73.9	4	69.1	3	66.0	2	54.1	2	42.6	2

## STATISTICS OF ANNUAL DISCHARGE FOR WATER YEARS, 1964-74

Units of annual Discharge	Mean	Standard Deviation	Coefficient of Variation	Skew Coefficient	First Order Serial Correlation Coefficient
CFS	24.3	17.5	0.72	1.53	0.20
LOGS of CFS	1.298	0.282		0.557	0.156



## RED RIVER BASIN

## 07327500 LITTLE WASHITA RIVER AT NINNEKAH, OKLA.

LOCATION.--Lat 34°27'24", long 97°55'34", at center of north line of sec.34, T.6 N., R.7 W., at center of north line of sec.34, T.6 N., R.7 W., at center of span on downstream side of pier of Chicago, Rock Island and Pacific Railroad Co. bridge, 0.5 mi (0.8 km) north of Ninneka, 1.2 mi (1.9 km) downstream from Rock Creek, and at mile 6.2 (10.0 km).

DRAINAGE AREA.--227 mi<sup>2</sup> (588 km<sup>2</sup>).

PERIOD OF RECORD.--October 1951 to September 1963.

AVERAGE DISCHARGE.--12 years (1952-63), 43.8 ft<sup>3</sup>/s (1.24 m<sup>3</sup>/s).

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

## LITTLE WASHITA RIVER AT NINNEKAH, OKLAHOMA

CLASS 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34

YEAR	NUMBER OF DAYS IN CLASS																																	CFS_DAYS
1952	26	1	2	1	2	2	2	5	2	4	4	12	28	15	15	57	98	44	12	12	6	4	3	2	2								15952.2	
1953	46	5	1	2	2	1	1	10	3	8	10	20	17	29	25	70	56	22	11	9	3	5	1	2	1	2	3						7596.1	
1954	69	3	2	2	1	6	6		5	1	4	3	11	5	7	27	131	28	15	17	2	5	3	2	4	1	1	1	3	2			13520.3	
1955	22	3	2	2	2	3	3	10	5	5	21	30	33	21	67	58	25	18	4	8	7	2	5	3									11747.3	
1956	77	1		2	1	1		2	1	9	3	8	14	13	34	121	49	13	6	1	2	1	1										8439.9	
1957	20					1		1	1	4	10	17	10	62	50	51	26	15	15	9	13	16	9	6	3	5	5	1	2	1	1	1		36779.5
1958																																		13149.8
1959																																		13886.4
1960																																		27566.7
1961																																		14788.3
1962																																		19639.1
1963	17	4	8	4	2	4	3	5	7	8	10	9	7	6	12	22	46	94	69	8	7	2	2	1	1	2							8777.9	

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	251	4383	100.0	9	1.80	37	3960	90.3	18	31.0	500	1220	27.8	27	550	16	44	1.0
1	0.10	47	4132	94.3	10	2.40	62	3923	89.5	19	43.0	260	720	16.4	28	760	8	28	.6
2	0.20	12	4085	93.2	11	3.30	113	3861	88.1	20	59.0	171	460	10.5	29	1000	6	20	.4
3	0.30	14	4073	92.9	12	4.60	164	3748	85.5	21	81.0	84	289	6.6	30	1400	6	14	.3
4	0.40	9	4059	92.6	13	6.30	239	3584	81.8	22	110.0	54	205	4.7	31	2000	4	8	.1
5	0.50	12	4050	92.4	14	8.70	315	3345	76.3	23	150.0	31	151	3.4	32	2700	2	4	.0
6	0.70	15	4032	92.0	15	12.00	495	3030	69.1	24	210.0	33	120	2.7	33	3700	2	2	.0
7	0.90	30	4017	91.6	16	16.00	730	2535	57.8	25	290.0	23	87	2.0	34				
8	1.30	27	3987	91.0	17	23.00	585	1805	41.2	26	400.0	20	64	1.5					

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## LITTLE WASHITA RIVER AT NINNEKAH, OKLAHOMA

YEAR	1		5		7		14		30		60		90		120		183		ANNUAL	
1953	0.00	1	0.00	1	0.00	1	0.10	4	0.13	3	0.59	3	1.76	3	3.07	3	6.82	3	40.70	6
1954	0.00	2	0.00	2	0.00	2	0.00	1	0.47	4	8.68	7	10.40	5	12.70	4	17.00	5	30.40	4
1955	0.00	3	0.00	3	0.00	3	0.00	2	0.12	2	0.53	2	0.61	2	1.08	2	2.34	1	22.20	2
1956	0.00	4	0.00	4	0.47	5	2.25	5	4.29	5	8.17	6	8.14	4	14.50	6	33.00	8	44.10	7
1957	0.00	5	0.00	5	0.00	4	0.00	3	0.00	1	0.00	1	0.00	1	0.75	1	4.94	2	12.00	1
1958	6.80	10	6.80	10	7.01	10	7.11	9	7.64	9	12.50	9	22.70	10	34.00	10	55.00	9	113.00	11
1959	6.40	9	6.53	9	6.69	9	7.39	10	9.36	10	11.60	8	12.20	6	12.80	5	16.00	4	27.30	3
1960	3.90	6	3.90	6	4.03	6	4.51	6	6.93	8	7.80	4	14.30	8	19.60	8	57.70	11	82.90	10
1961	3.40	7	4.17	7	4.64	8	4.89	7	5.94	6	8.07	5	12.40	7	17.00	7	22.40	6	36.40	5
1962	6.50	11	9.93	11	11.40	11	16.80	11	21.60	11	24.90	11	41.10	11	45.10	11	46.80	10	49.20	9
1963	4.00	8	4.20	8	4.51	7	4.89	8	6.55	7	14.90	10	20.80	9	31.40	9	32.60	7	46.80	8

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## LITTLE WASHITA RIVER AT NINNEKAH, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1952	2280.0 4	1030.0 6	534.0 5	384.0 3	269.0 3	161.0 3	114.0 3	97.9 3	73.9 3	43.6 4
1953	495.0 10	213.0 11	115.0 11	84.7 11	68.1 11	51.1 11	41.6 11	39.2 11	32.5 12	20.8 12
1954	1180.0 8	612.0 7	407.0 7	284.0 5	175.0 6	99.4 7	73.0 7	60.3 8	51.7 7	37.0 7
1955	3740.0 2	1560.0 3	716.0 3	574.0 4	209.0 4	123.0 4	86.0 4	68.6 5	55.2 6	32.2 9
1956	1400.0 6	1060.0 5	477.0 6	252.0 6	123.0 8	68.1 9	50.2 10	41.4 10	33.7 11	23.1 11
1957	8050.0 1	3360.0 1	1680.0 1	1180.0 1	708.0 1	464.0 1	327.0 1	251.0 1	190.0 1	101.0 1
1958	380.0 11	226.0 10	152.0 10	101.0 10	79.1 10	61.9 10	55.7 9	51.6 9	46.0 9	36.0 8
1959	2920.0 3	1140.0 4	534.0 4	273.0 6	178.0 5	107.0 5	81.4 5	65.6 6	57.7 5	38.0 6
1960	2180.0 5	1990.0 2	1100.0 2	549.0 2	295.0 2	182.0 2	151.0 2	130.0 2	108.0 2	75.3 2
1961	760.0 9	415.0 9	255.0 9	136.0 9	79.3 9	77.2 8	59.7 8	64.3 7	51.4 8	40.5 5
1962	1550.0 7	550.0 8	337.0 8	270.0 7	168.0 7	102.0 6	81.3 6	73.0 4	61.2 4	53.8 3
1963	371.0 12	189.0 12	97.4 12	61.9 12	45.9 12	41.6 12	37.7 12	35.0 12	35.9 10	24.0 10

## STATISTICS OF ANNUAL DISCHARGE FOR WATER YEARS, 1952-63

Units of annual Discharge	Mean	Standard Deviation	Coefficient of Variation	Skew Coefficient	First Order Serial Correlation Coefficient
CFS	43.8	23.4	0.53	1.61	-0.28
LOGS of CFS	1.594	0.203		0.652	-0.280

## RED RIVER BASIN

343

07328000 WASHITA RIVER NEAR TABLER, OKLA.

LOCATION.--Lat 34°58'24", long 97°50'46", in SW 1/4 SW 1/4 sec.21, T.6 N., R.6 W., at abandoned county highway bridge 1 mi (1.6 km) downstream from Little Washita River, 5.0 mi (8.0 km) south of Tabler, and at mile 243.0 (391 km).

DRAINAGE AREA.--4,706 mi<sup>2</sup> (12,189 km<sup>2</sup>).

PERIOD OF RECORD.--October 1939 to September 1952.

AVERAGE DISCHARGE.--13 years (1940-52), 670 ft<sup>3</sup>/s (19.0 m<sup>3</sup>/s).

REMARKS.--Low flow regulated by power plant at Chickasha, 8 mi (12.9 km) above station.

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

WASHITA RIVER NEAR TABLER, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS	
1940																																			68973.0	
1941																																				328756.0
1942																																				402320.0
1943																																				233948.0
1944																																				179129.0
1945																																				349604.0
1946																																				188255.0
1947																																				318192.0
1948																																				150614.0
1949																																				378173.0
1950																																				203039.0
1951																																				295269.0
1952	7	11					1			14	3	6	6	15	27	24	33	67	93	16	9	9	7	2	3	2	1	1							85890.6	

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	7	4749	100.0	9	12.00	14	4730	99.6	18	180.0	908	3251	68.5	27	2900	64	235	4.9
1	1.00	11	4742	99.9	10	16.00	3	4716	99.3	19	250.0	537	2343	49.3	28	3900	78	171	3.6
2	1.40	0	4731	99.6	11	21.00	22	4713	99.2	20	340.0	477	1806	38.0	29	5300	45	93	1.9
3	1.80	0	4731	99.6	12	29.00	57	4691	98.8	21	460.0	360	1329	28.0	30	7200	29	48	1.0
4	2.50	0	4731	99.6	13	40.00	159	4634	97.6	22	620.0	225	969	20.4	31	9800	9	19	.4
5	3.40	0	4731	99.6	14	54.00	186	4475	94.2	23	850.0	212	744	15.7	32	13000	5	10	.2
6	4.60	1	4731	99.6	15	73.00	201	4289	90.3	24	1200.0	115	532	11.2	33	18000	4	5	.1
7	6.30	0	4730	99.6	16	99.00	332	4088	86.1	25	1600.0	86	417	8.8	34	25000	1	1	.0
8	8.50	0	4730	99.6	17	130.00	505	3756	79.1	26	2100.0	96	331	7.0					

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

WASHITA RIVER NEAR TABLER, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1941	26.00 1	26.00 1	29.60 1	30.60 1	35.50 1	46.90 1	79.20 1	96.00 1	130.00 1	232.00 1
1942	78.00 9	84.30 8	92.40 6	121.00 9	298.00 11	349.00 11	412.00 12	499.00 12	891.00 12	1300.00 12
1943	189.00 12	242.00 12	281.00 12	305.00 12	332.00 12	379.00 12	411.00 11	431.00 11	520.00 11	897.00 8
1944	48.00 4	56.70 4	65.90 4	72.30 4	77.50 3	99.00 4	105.00 2	131.00 3	153.00 2	514.00 4
1945	72.00 8	85.30 9	94.90 7	118.00 7	167.00 10	228.00 9	237.00 9	255.00 9	298.00 9	589.00 6
1946	91.00 11	108.00 11	113.00 10	123.00 10	155.00 9	241.00 10	264.00 10	277.00 10	412.00 10	915.00 9
1947	88.00 10	100.00 10	105.00 9	120.00 8	147.00 7	202.00 7	214.00 7	233.00 8	278.00 8	468.00 3
1948	55.00 7	58.70 5	60.60 3	63.50 3	87.70 4	97.90 3	123.00 3	131.00 4	175.00 5	922.00 10
1949	31.00 2	31.30 2	35.00 2	43.10 2	50.60 2	62.40 2	126.00 4	121.00 2	165.00 3	380.00 2
1950	36.00 3	76.70 6	96.70 6	107.00 6	119.00 6	154.00 6	154.00 6	165.00 6	182.00 6	967.00 11
1951	50.00 5	50.00 3	123.00 11	144.00 11	154.00 8	203.00 8	219.00 8	222.00 7	249.00 7	588.00 5
1952	50.00 6	84.30 7	89.30 5	96.60 5	106.00 5	120.00 5	130.00 5	143.00 5	166.00 4	767.00 7

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

WASHITA RIVER NEAR TABLER, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1940	3170.0 13	3000.0 12	2210.0 12	1210.0 13	691.0 13	485.0 13	517.0 13	436.0 13	330.0 13	188.0 13
1941	11900.0 4	9490.0 4	8980.0 4	7030.0 4	5290.0 4	3880.0 2	3040.0 2	2380.0 2	1660.0 2	901.0 4
1942	9320.0 7	8290.0 6	6050.0 7	4210.0 7	3060.0 6	1890.0 6	1810.0 6	1470.0 6	1270.0 6	1100.0 1
1943	8720.0 9	6030.0 9	4860.0 9	3770.0 8	3030.0 7	1830.0 7	1380.0 8	1130.0 8	894.0 8	641.0 7
1944	4610.0 11	4440.0 10	3580.0 10	2480.0 10	1790.0 10	1160.0 10	1140.0 9	1030.0 9	791.0 9	489.0 10
1945	11800.0 5	9240.0 5	8260.0 5	5220.0 5	2960.0 8	2080.0 5	2070.0 5	1850.0 5	1490.0 3	958.0 3
1946	8880.0 8	7410.0 8	6020.0 8	3570.0 9	1930.0 9	1510.0 9	1100.0 10	891.0 10	702.0 10	516.0 9
1947	24700.0 2	14400.0 3	10800.0 3	7400.0 3	5360.0 3	3500.0 3	2760.0 3	2160.0 3	1490.0 4	872.0 5
1948	5820.0 10	3640.0 11	3080.0 11	1980.0 11	1260.0 11	844.0 11	717.0 11	757.0 11	643.0 11	412.0 11
1949	40200.0 1	24100.0 1	16700.0 1	10400.0 1	8070.0 1	4670.0 1	3290.0 1	2560.0 1	1900.0 1	1040.0 2
1950	9980.0 6	7450.0 7	6380.0 6	4500.0 6	3070.0 5	1820.0 8	1480.0 7	1260.0 7	925.0 7	556.0 8
1951	20200.0 3	16900.0 2	14700.0 2	8590.0 2	5910.0 2	3600.0 3	2530.0 4	1960.0 4	1380.0 5	809.0 6
1952	4290.0 12	2590.0 13	2050.0 13	1670.0 12	1100.0 12	751.0 12	572.0 12	485.0 12	378.0 12	235.0 12

## STATISTICS OF ANNUAL DISCHARGE FOR WATER YEARS, 1940-52

Units of annual Discharge	Mean	Standard Deviation	Coefficient of Variation	Skew Coefficient	First Order Serial Correlation Coefficient
CFS	671	300	0.45	-0.17	-0.51
LOGS of CFS	2.774	0.242		-0.967	-0.467

## RED RIVER BASIN

07328070 WINTER CREEK NEAR ALEX, OKLA.

LOCATION.--Lat 34°59'35", long 97°45'40", in NE 1/4 sec.18, T.6 N., R.5 W., Grady County, at left bank 1,000 ft (304.8 m) downstream from county road bridge, 0.7 mi (1.1 km) downstream from East Winter Creek, 3.2 mi (5.2 km) upstream from mouth, and 5.5 mi (8.9 km) north of Alex.

DRAINAGE AREA.--33 mi<sup>2</sup> (86 km<sup>2</sup>).

PERIOD OF RECORD.--October 1964 to September 1974.

AVERAGE DISCHARGE.--7 years (1968-74), 9.17 ft<sup>3</sup>/s (0.260 m<sup>3</sup>/s).

REMARKS.--Beginning in July 1967, flow regulated by 16 flood-retarding structures, combined capacity, 1,050 acre-ft (1.29 hm<sup>3</sup>). Minor diversions for irrigation above station.

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

## WINTER CREEK NEAR ALEX, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS	
1968		2	7	2	7	12	12	21	45	37	39	32	29	24	24	15	17	6	15	9	5		2	1	2				1							1890.6
1969					2	4	4	13	26	19	19	23	50	57	43	36	18	16	10	7	5	5	2	1	1				2	1	1				3466.3	
1970	68	3	3	2	4	2	4	10	11	18	23	23	87	56	30	4	4	1	1	1	2	1	1	1	1	1	1	1							2147.7	
1971		1	7	7	7	9	8	10	11	23	17	20	38	49	56	28	21	10	9	9	8	4	5	4	2				2						2128.8	
1972		9	8	18	14	8	6	11	9	9	4	17	18	23	45	50	54	20	14	7	6	3	2	4	3	1	1	1	1						2373.4	
1973			6	12	1					6	1	1	9	10	30	63	63	30	41	24	13	11	14	5	8	3	5	1	2	2	2	1			7519.6	
1974							7	3	12	13	15	12	16	12	31	68	90	41	12	8	4	4	4	5	2	3	1	1	1						3889.6	

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	78	2557	100.0	9	1.30	121	2102	82.2	18	13.0	101	338	13.2	27	130	7	20	.7					
1	0.10	20	2479	96.9	10	1.70	134	1981	77.5	19	17.0	66	237	9.3	28	170	5	13	.5					
2	0.20	41	2459	96.2	11	2.20	143	1847	72.2	20	22.0	38	171	6.7	29	220	4	8	.3					
3	0.30	37	2418	94.6	12	2.80	236	1704	66.6	21	28.0	28	133	5.2	30	280	2	4	.1					
4	0.40	29	2381	93.1	13	3.60	253	1468	57.4	22	36.0	34	105	4.1	31	360	1	2	.0					
5	0.50	30	2352	92.0	14	4.60	250	1215	47.5	23	46.0	19	71	2.8	32	470	1	1	.0					
6	0.60	49	2322	90.8	15	6.00	268	965	37.7	24	60.0	15	52	2.0	33									
7	0.80	58	2273	88.9	16	7.70	240	697	27.3	25	78.0	9	37	1.4	34									
8	1.00	113	2215	86.6	17	10.00	119	457	17.9	26	100.0	8	28	1.1										

## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## WINTER CREEK NEAR ALEX, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1969	0.10 4	0.13 4	0.19 4	0.26 3	0.67 3	1.18 3	1.97 3	2.28 3	3.52 3	7.23 2
1970	0.50 5	0.53 5	0.63 5	0.89 5	2.32 5	2.96 5	3.17 5	3.13 4	3.42 2	8.02 4
1971	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.05 1	0.22 1	1.37 2	6.90 5	7.58 3
1972	0.00 2	0.07 3	0.14 3	0.31 4	0.73 4	1.80 4	2.35 4	4.51 5	4.83 4	7.22 1
1973	0.00 3	0.00 2	0.01 2	0.06 2	0.14 2	0.25 2	0.39 2	0.87 1	2.47 1	9.54 5
1974	2.50 6	2.77 6	2.63 6	3.19 6	4.70 6	6.29 6	7.75 6	9.25 6	12.60 6	19.10 6

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## WINTER CREEK NEAR ALEX, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1968	205.0 4	40.0 5	45.9 7	24.9 7	17.9 7	17.8 5	14.0 4	11.8 5	8.8 5	5.2 7
1969	257.0 3	175.0 3	104.0 3	61.0 3	35.9 3	26.0 2	20.2 2	17.4 2	14.5 3	9.5 3
1970	518.0 1	302.0 1	164.0 2	79.9 2	40.0 2	20.0 3	13.5 6	10.5 6	8.3 6	5.9 5
1971	144.0 6	76.3 7	46.6 6	28.6 6	20.1 5	12.3 7	9.3 7	7.9 7	6.8 7	5.8 6
1972	133.0 7	89.0 6	53.9 5	31.0 5	19.6 6	13.0 6	13.8 5	11.9 4	9.6 4	6.5 4
1973	465.0 2	301.0 2	174.0 1	150.0 1	93.6 1	54.0 1	46.2 1	38.4 1	28.2 1	20.6 1
1974	192.0 5	123.0 4	78.4 4	49.9 4	30.2 4	19.9 4	16.5 3	14.5 3	14.9 2	10.7 2

## 345

LOCATION.--Lat 34°55'35", long 97°46'30", in NW 1/4 sec.7, T.5 N., R.5 W., Grady County, near left bank on downstream side of county road bridge, 1.0 mi (1.6 km) north of Alex, 3.8 mi (6.1 km) downstream from Winter Creek, and at mile 226.5 (362.4 km).

PERIOD OF RECORD.--October 1964 to September 1974.

REMARKS.--Some regulation by Fort Cobb Reservoir by Foss Reservoir and by numerous flood-retarding structures.

## WASHITA RIVER AT ALEX, OKLAHOMA

[illegible]

CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT
0	0.00	9	3652	100.0	9	2.00	15	3596	98.5	19	62.0	223	3276	69.7	27	860	96	280	7.6
1	0.10	7	3643	99.8	10	2.90	10	3581	98.1	19	58.0	340	3053	83.3	28	1200	63	184	5.0
2	0.20	3	3636	99.6	11	4.00	16	3571	97.8	20	82.0	377	2707	74.1	29	1700	48	121	3.3
3	0.30	3	3633	99.5	12	5.60	14	3555	97.3	21	110.0	557	2330	65.8	30	2300	39	73	1.9
4	0.40	5	3630	99.4	13	7.80	14	3541	97.0	22	160.0	420	1773	48.5	31	3300	20	34	.9
5	0.50	4	3625	99.3	14	11.00	28	3527	96.6	23	220.0	462	1353	37.0	32	4600	12	14	.3
6	0.70	5	3621	99.2	15	15.00	52	3499	95.8	24	310.0	249	891	24.4	33	6400	2	2	.0
7	1.00	7	3616	99.0	16	21.00	84	3447	94.4	25	440.0	186	602	16.5	34				
8	1.50	13	3609	98.8	17	39.00	87	3363	92.1	26	610.0	156	416	11.4					

WASHITA RIVER AT ALEX, OKLAHOMA

YEAR	1		3		7		14		30		60		90		120		185		ANNUAL	
1966	15.00	6	21.00	6	23.60	6	32.60	6	61.30	6	175.00	7	241.00	8	304.00	9	489.00	9	522.00	8
1967	9.90	5	12.30	5	18.10	5	21.40	5	42.20	5	61.10	5	74.90	4	78.30	4	84.00	3	133.00	1
1968	0.10	3	0.13	3	0.43	3	1.54	3	15.50	4	40.30	4	60.60	3	72.30	3	69.00	1	157.00	3
1969	64.00	9	70.30	9	75.10	9	106.00	9	134.00	8	197.00	8	222.00	7	237.00	7	246.00	7	395.00	6
1970	53.00	7	57.30	7	62.00	7	70.40	7	95.70	7	120.00	6	123.00	6	125.00	5	131.00	5	439.00	7
1971	0.00	1	0.00	1	0.01	1	0.41	1	2.61	1	16.60	1	39.10	2	64.40	2	76.00	2	149.00	2
1972	1.00	4	1.35	4	7.47	4	14.60	4	23.10	3	101.00	3	181.00	6	165.00	6	194.00	4	194.00	4
1973	0.00	2	0.00	2	0.26	2	0.57	2	3.95	2	18.70	2	18.90	1	26.10	1	109.00	4	234.00	5
1974	62.00	8	66.00	8	69.90	8	84.40	8	145.00	9	219.00	9	248.00	9	278.00	8	415.00	8	639.00	9

WASHITA RIVER AT ALEX, OKLAHOMA

YEAR	1		3		7		15		30		60		90		120		183		ANNUAL	
1965	5530.0	4	5090.0	2	4140.0	2	2270.0	3	1260.0	4	763.0	5	577.0	6	560.0	6	489.0	5	429.0	3
1966	4830.0	6	4350.0	4	2920.0	4	1800.0	4	1500.0	3	953.0	4	762.0	4	657.0	4	554.0	3	368.0	5
1967	5330.0	5	4040.0	5	2440.0	5	1450.0	5	854.0	7	493.0	7	365.0	7	301.0	8	226.0	8	150.0	9
1968	3100.0	8	2700.0	6	2060.0	7	1450.0	6	1150.0	5	967.0	5	826.0	3	695.0	3	525.0	4	310.0	6
1969	8220.0	1	6800.0	1	5670.0	1	4460.0	1	2820.0	1	1770.0	1	1290.0	2	1040.0	2	769.0	2	507.0	2
1970	2810.0	9	2020.0	9	1420.0	9	834.0	6	532.0	8	463.0	8	362.0	8	308.0	7	245.0	7	177.0	7
1971	1940.0	10	1310.0	10	854.0	10	669.0	10	418.0	10	262.0	10	207.0	10	228.0	10	165.0	10	120.0	10
1972	5860.0	3	2660.0	7	1430.0	8	772.0	9	443.0	9	351.0	9	330.0	9	284.0	9	223.0	9	172.0	8
1973	6360.0	2	4990.0	3	3850.0	3	2420.0	2	1850.0	2	1370.0	2	1380.0	1	1170.0	1	897.0	1	610.0	1
1974	3620.0	7	2600.0	8	2260.0	6	1430.0	7	962.0	6	703.0	6	650.0	5	580.0	5	466.0	6	420.0	4

## RED RIVER BASIN

07328500 WASHITA RIVER NEAR PAULS VALLEY, OKLA.

LOCATION.--Lat 34°45'17", long 97°15'04", in SE 1/4 sec.1, T.3 N., R.1 E., Garvin County, on downstream side of right pier of bridge on U.S. Highway 77, 2 mi (3.2 km) northwest of Pauls Valley, 6 mi (9.7 km) downstream from Owl Creek, 7 mi (11.3 km) upstream from Washington Creek, and at mile 146.5 (235.7 km).

DRAINAGE AREA.--5,330 mi<sup>2</sup> (13,805 km<sup>2</sup>).

PERIOD OF RECORD.--October 1937 to September 1974.

AVERAGE DISCHARGE.--37 years (1938-74), 693 ft<sup>3</sup>/s (19.6 m<sup>3</sup>/s).

REMARKS.--Some diversion for irrigation above station. Some regulation since March 1959, by Fort Cobb Reservoir since February 1961, by Foss Reservoir, and by numerous flood-retarding structures.

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

WASHITA RIVER NEAR PAULS VALLEY, (OKLAHOMA)

CLASS 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34

YEAR	NUMBER OF DAYS IN CLASS																																	CFS_DAYS
1938																																278581.0		
1939																																120079.0		
1940																																101487.0		
1941																																429264.0		
1942																																593081.0		
1943																																380474.0		
1944																																226032.0		
1945																																513927.0		
1946																																360042.0		
1947																																470023.0		
1948																																225853.0		
1949																																433259.0		
1950																																338196.0		
1951																																379910.0		
1952																																147703.7		
1953																																44330.7		
1954																																193361.4		
1955																																181967.0		
1956	32																															137416.3		
1957	14																															588001.0		
1958																																161518.0		
1959																																212778.0		
1960																																384507.0		
1961																																268011.0		
1962																																328527.0		
1963																																138322.3		
1964	17																															78314.8		
1965																																174208.0		
1966	4																															145377.2		
1967																																66041.4		
1968																																182369.0		
1969																																246364.0		
1970	4	3		5	1		2	1	2	4	5	3	2	3	6	14	18	6	4	45	163	38	11	10	5	4	3	1		1	1	94111.2		
1971	1						1	2	1		1	4	6	5	9	38	48	53	103	27	20	22	12	5	3	2	1	1				68597.8		
1972	27				5	1	2	3	2	3	5	4	6	6	3	12	22	64	103	38	19	17	13	4			1	1				85118.5		
1973							7	1	7	2	3				1		2	49	40	49	42	46	33	30	26	10	10	5				314166.0		
1974															1	3	4	5	11	15	15	7	115	38	26	24	11	8	2			215381.0		

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	99	13514	100.0	9	1.00	13	13349	98.8	18	68.0	830	12085	89.4	27	2600	241	714	5.2
1	0.05	3	13415	99.3	10	2.70	23	13336	98.7	19	100.0	1625	11255	83.3	28	3600	224	473	3.5
2	0.07	6	13412	99.2	11	4.10	21	13313	98.5	20	150.0	1875	9630	71.3	29	5700	154	249	1.8
3	0.10	6	13412	99.2	12	6.10	43	13292	98.4	21	230.0	2124	7755	57.4	30	8600	64	95	.7
4	0.20	14	13406	99.2	13	9.10	78	13249	98.0	22	340.0	1866	5631	41.7	31	13000	23	31	.2
5	0.40	4	13393	99.1	14	14.00	67	13171	97.5	23	510.0	1255	3745	27.9	32	19000	7	8	.0
6	0.50	7	13389	99.1	15	20.00	205	13104	97.0	24	770.0	748	2510	18.6	33	29000	1	1	
7	0.80	10	13382	99.0	16	31.00	269	12899	95.4	25	1100.0	614	1762	13.0	34				
8	1.20	23	13372	98.9	17	46.00	545	12830	93.5	26	1700.0	434	1148	8.5					





## MONTHLY DURATION TABLE

WASHITA RIVER NEAR PAULSVALLEY, OKLAHOMA

PERIOD 1937-1974

CLASS LIMIT	TOTAL PERCENT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
0.00	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0.05	99.3	100.0	100.0	100.0	100.0	100.0	100.0	96.5	97.0	96.9	96.8	100.0	100.0
0.07	99.2	100.0	100.0	100.0	100.0	100.0	100.0	96.5	96.8	96.9	96.8	100.0	100.0
0.11	99.2	100.0	100.0	100.0	100.0	100.0	100.0	96.5	96.8	96.9	96.8	100.0	100.0
0.16	99.2	100.0	100.0	100.0	100.0	100.0	100.0	96.5	96.3	96.9	96.8	100.0	100.0
0.24	99.1	100.0	100.0	100.0	100.0	100.0	100.0	96.3	96.1	96.9	96.8	100.0	100.0
0.37	99.1	100.0	100.0	100.0	100.0	100.0	100.0	96.3	95.6	96.8	96.8	100.0	100.0
0.55	99.1	100.0	100.0	100.0	100.0	100.0	100.0	96.2	95.2	96.8	96.7	100.0	100.0
0.82	99.0	100.0	100.0	100.0	100.0	100.0	100.0	96.2	94.5	96.7	96.6	100.0	100.0
1.20	98.9	100.0	100.0	100.0	100.0	100.0	100.0	96.0	94.2	96.7	96.6	100.0	100.0
1.60	98.8	100.0	100.0	100.0	100.0	100.0	100.0	97.7	93.4	96.5	96.0	99.9	100.0
2.70	98.7	100.0	100.0	100.0	100.0	100.0	100.0	97.1	92.9	96.5	97.9	99.4	100.0
4.10	98.5	100.0	100.0	100.0	100.0	100.0	100.0	96.4	92.4	96.3	97.5	99.9	100.0
6.10	98.4	100.0	100.0	100.0	100.0	100.0	100.0	96.0	91.5	95.9	97.1	99.9	100.0
9.20	98.0	100.0	100.0	100.0	100.0	99.8	100.0	95.2	90.6	95.5	95.7	99.9	100.0
14.00	97.5	100.0	100.0	100.0	100.0	99.5	100.0	94.5	89.3	92.2	94.5	99.9	100.0
20.00	97.0	100.0	100.0	100.0	100.0	99.3	100.0	93.6	88.1	90.2	93.8	98.9	100.0
31.00	95.4	100.0	100.0	100.0	100.0	99.0	100.0	91.5	84.0	85.4	90.1	95.9	99.5
46.00	93.5	99.2	100.0	100.0	99.1	97.7	99.5	86.7	80.7	82.3	86.4	91.7	96.6
68.00	89.4	95.8	96.7	97.0	95.7	96.9	97.7	81.5	77.6	77.6	79.3	84.0	92.0
100.00	83.3	87.1	92.0	89.8	91.7	94.9	94.3	78.1	73.1	70.5	67.5	78.5	82.8
150.00	71.3	72.3	75.5	72.8	84.7	89.1	88.6	71.1	62.6	54.5	55.9	64.0	64.0
230.00	57.4	55.0	58.3	59.9	69.0	78.2	80.4	65.2	43.2	39.5	42.9	44.5	47.9
340.00	41.7	26.0	32.5	40.1	52.9	64.0	73.0	53.2	27.0	29.5	33.8	33.2	29.7
510.00	27.9	14.3	17.0	21.3	34.0	56.8	59.7	33.7	15.3	20.5	25.1	20.0	15.6
770.00	16.6	4.8	9.1	12.6	21.7	45.3	47.3	19.5	9.0	14.1	18.2	12.8	8.3
1100.00	13.0	1.5	6.4	6.9	15.7	35.3	36.7	13.4	5.8	9.9	13.3	8.3	5.4
1700.00	8.5	0.3	4.5	3.6	11.2	26.2	26.6	7.4	2.2	5.4	8.9	3.9	1.4
2600.00	5.3	0.0	1.0	1.8	7.0	19.3	17.3	4.5	1.0	3.4	5.2	2.3	0.5
3800.00	3.5	0.0	0.0	0.9	5.0	14.8	11.4	2.4	0.4	2.2	3.5	1.1	0.3
5700.00	1.8	0.0	0.0	0.3	2.3	8.2	6.4	1.4	0.0	1.1	2.0	0.5	0.0
8600.00	0.7	0.0	0.0	0.0	0.4	4.0	2.1	0.3	0.0	0.6	0.8	0.3	0.0
13000.00	0.2	0.0	0.0	0.0	0.0	1.9	0.3	0.0	0.0	0.1	0.4	0.0	0.0
19000.00	0.1	0.0	0.0	0.0	0.0	0.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0
29000.00	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0

## STATISTICS OF ANNUAL DISCHARGE FOR WATER YEARS, 1938-74

Units of annual Discharge	Mean	Standard Deviation	Coefficient of Variation	Skew Coefficient	First Order Serial Correlation Coefficient
CFS	693	405	0.58	0.74	0.28
LOGS of CFS	2.763	0.271		-0.188	0.364

AVERAGE DISCHARGE.--14 years (1940-53), 72.0 ft<sup>3</sup>/s (2.04 m<sup>3</sup>/s).

Units of annual Discharge	Mean	Standard Deviation	Coefficient of Variation	Skew Coefficient	First Order Serial Correlation Coefficient
CFS	72.0	47.2	0.66	0.80	-0.06
LOGS of CFS	1.759	0.318		-0.298	-0.063



## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

## RUSH CREEK NEAR MAYSVILLE, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS
1970	64	1				2					2	4	1	10	14	50	79	52	40	17	4	6	2	4	2	3	2	2	1	2			1		13189.8
1971	45	1		2		1	4		5	3	4	5	4	8	10	43	58	63	43	24	15	8	8	5	4	3	2			1					5343.6
1972	63		2	1		2			3	4	1	2	5	11	44	34	99	29	21	7	8	7	9	5	5	1	1				2				8361.4
1973	20										2	3	1	3	5	23	16	10	43	54	44	35	34	26	8	13	4	5	3	7	5	1			36028.9
1974														14	8	20	15	13	29	90	101	24	20	10	7	5	3	3		1	1		1		20614.7

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	192	1826	100.0	9	0.50	7	1610	88.2	18	14.0	157	799	43.8	27	380	11	37	2.0					
1	0.02	2	1634	89.5	10	0.80	10	1603	87.8	19	21.0	183	642	35.2	28	550	5	26	1.4					
2	0.04	2	1632	89.4	11	1.10	13	1593	87.2	20	30.0	165	459	25.1	29	800	10	21	1.1					
3	0.06	3	1630	89.3	12	1.60	15	1580	86.5	21	43.0	80	294	16.1	30	1100	8	11	.6					
4	0.08	0	1627	89.1	13	2.30	48	1565	85.7	22	62.0	70	214	11.7	31	1700	1	3	.1					
5	0.10	3	1627	89.1	14	3.30	114	1517	83.1	23	89.0	49	144	7.9	32	2400		2	.1					
6	0.20	6	1624	88.9	15	4.80	185	1403	76.8	24	130.0	20	95	5.2	33	3400	2	2	.1					
7	0.30	0	1618	88.6	16	6.90	272	1218	66.7	25	180.0	28	75	4.1	34									
8	0.40	8	1618	88.6	17	9.90	147	946	51.8	26	270.0	10	47	2.6										

## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## RUSH CREEK NEAR MAYSVILLE, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1971	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.16 1	1.92 2	9.91 3	20.10 3	41.00 2
1972	0.00 2	0.00 2	0.00 2	0.00 2	0.00 2	1.79 3	4.06 3	5.20 2	9.66 1	16.90 1
1973	0.00 3	0.00 3	0.00 3	0.00 3	0.03 3	0.60 2	0.44 1	4.86 1	19.50 2	47.00 3
1974	5.60 4	5.77 4	6.07 4	7.96 4	17.20 4	27.40 4	33.70 4	36.10 4	79.80 4	102.00 4

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## RUSH CREEK NEAR MAYSVILLE, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1970	4640.0 1	2030.0 1	1040.0 1	509.0 1	257.0 2	128.0 3	85.7 3	78.4 3	62.1 3	36.1 3
1971	702.0 5	335.0 5	188.0 5	112.0 5	65.1 5	36.5 5	26.6 5	23.0 5	19.6 5	14.6 5
1972	1330.0 4	618.0 4	278.0 4	148.0 4	96.0 4	54.6 4	42.5 4	33.3 4	29.4 4	22.8 4
1973	1710.0 3	1240.0 3	803.0 2	446.0 2	332.0 1	253.0 1	221.0 1	195.0 1	140.0 1	98.7 1
1974	3430.0 2	1630.0 2	798.0 3	425.0 3	230.0 3	168.0 2	125.0 2	102.0 2	79.4 2	57.0 2



## RED RIVER BASIN

07329700 WILDHORSE CREEK NEAR HOOVER, OKLA.

LOCATION.--lat 34°32'29", long 97°14'49", on west line of SW 1/4 sec.19, T.1 N., R.1 E., Garvin County, on downstream left bank at bridge on State Highway 19A, 1.5 mi (2.4 km) north of Hoover, 1.8 mi (2.9 km) downstream from Sandy Creek, and at mile 7.9 (12.7 km).

DRAINAGE AREA.--604 mi<sup>2</sup> (1,564 km<sup>2</sup>).

PERIOD OF RECORD.--October 1969 to September 1974.

AVERAGE DISCHARGE.--5 years (1970-74), 156 ft<sup>3</sup>/s (4.42 m<sup>3</sup>/s).

REMARKS.--Flow regulated by Duncan, Clear Creek, Humphries and Fuqua Lakes, combined surface-area, 3,340 acres (13.5 km<sup>2</sup>), and capacity, 44,800 acre-ft (55.2 hm<sup>3</sup>), and numerous flood-retarding structures.

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

WILDHORSE CREEK NEAR HOOVER, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	
YEAR	NUMBER OF DAYS IN CLASS																																			CFS-DAYS
1970	6	1	2	2	5	9	13	5	3	7	4	7	12	15	32	42	35	47	34	28	16	16	7	6	4	3	1		2		1				12893.4	
1971	3	1	1	4	1	5	5	8	9	8	12	4	5	9	8	13	26	55	63	38	26	15	11	10	7	6	7	2		1	1				25550.9	
1972			2	1	3	6	26	10	7	11	20	25	36	40	46	35	23	16	11	11	11	4	4	11	1	1	2	1							20040.5	
1973				1	4	5	5	1	1	2	1	1	1	2	6	4	8	15	25	23	14	16	32	63	39	30	21	13	14	6	6	4	1	1		116185.1
1974															2	5	4	13	23	14	15	65	59	53	39	24	15	9	11	5	2	2	3	2		109596.5

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	9	1826	100.0	9	0.40	43	1712	93.8	18	15.0	180	1086	59.5	27	570	25	92	5.0					
1	0.01	2	1817	99.5	10	0.60	27	1669	91.4	19	22.0	126	906	49.6	28	860	28	67	3.6					
2	0.02	3	1815	99.4	11	0.90	19	1642	89.9	20	33.0	87	780	42.7	29	1300	14	39	2.1					
3	0.03	7	1812	99.2	12	1.30	29	1623	88.9	21	50.0	123	693	38.0	30	1900	11	25	1.3					
4	0.05	10	1805	98.8	13	1.90	46	1594	87.3	22	75.0	120	570	31.2	31	2900	6	14	.7					
5	0.07	21	1795	98.3	14	2.90	73	1548	84.8	23	110.0	143	450	24.6	32	4400	5	8	.4					
6	0.10	24	1774	97.2	15	4.40	160	1475	80.8	24	170.0	93	307	16.8	33	6600	3	3	.1					
7	0.20	17	1750	95.8	16	6.60	113	1375	75.3	25	250.0	67	214	11.7	34									
8	0.30	21	1733	94.9	17	9.80	176	1262	69.1	26	360.0	55	147	8.1										

## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

WILDHORSE CREEK NEAR HOOVER, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL								
1971	0.00	1	0.00	1	0.03	1	0.11	1	0.59	1	2.41	1	7.22	1	56.00	2	83.60	2
1972	0.00	2	0.00	2	0.01	2	0.07	2	0.32	2	7.21	3	8.30	3	9.84	2	14.10	1
1973	0.04	3	0.05	3	0.06	3	0.08	3	1.12	3	1.79	2	4.39	2	11.30	3	66.00	3
1974	3.00	4	3.30	4	4.36	4	5.81	4	10.50	4	26.40	4	77.90	4	162.00	4	302.00	4

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

WILDHORSE CREEK NEAR HOOVER, OKLAHOMA

YEAR	1		3		7		15		30		60		90		120		183		ANNUAL	
1970	2770.0	4	1330.0	4	674.0	5	324.0	5	164.0	5	86.1	5	64.7	5	51.6	5	56.1	5	35.3	5
1971	6560.0	3	2900.0	3	1470.0	3	752.0	3	536.0	3	263.0	3	196.0	3	156.0	3	111.0	3	70.0	3
1972	2230.0	5	1290.0	5	695.0	4	343.0	4	292.0	4	187.0	4	136.0	4	103.0	4	92.9	4	54.8	4
1973	8720.0	1	5520.0	2	3660.0	1	2020.0	1	1190.0	1	829.0	1	675.0	1	585.0	1	437.0	1	318.0	1
1974	8620.0	2	6190.0	1	3400.0	2	1900.0	2	1100.0	2	781.0	2	605.0	2	484.0	2	372.0	2	300.0	2

## RED RIVER BASIN

353

07329900 ROCK CREEK AT DOUGHERTY, OKLA.

LOCATION.--Lat 34°23'50", long 97°02'10", in NW 1/4 SE 1/4 sec.7, T.2 S., R.3 E., on downstream side of bridge on State Highway 7-C, 1.0 mi (1.6 km) east of Dougherty and at mile 1.0 (1.6 km).

DRAINAGE AREA.--138 mi<sup>2</sup> (357 km<sup>2</sup>).

PERIOD OF RECORD.--March 1956 to June 1967.

AVERAGE DISCHARGE.--10 years (1957-66) 63.6 ft<sup>3</sup>/s (1.80 m<sup>3</sup>/s).

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

## ROCK CREEK AT DOUGHERTY, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS	
1957		1	1	6	3		5	6	8	15	17	19	11	36	58	28	34	22	12	11	11	5	11	7	6	7	7	5	4	2	2	2		2	1	60891.0
1958												3	6	44	31	36	26	56	56	46	24	16	5	5	4	2	2	2		1					31252.1	
1959				2	3	2	16	21	42	28	56	108	57	15	8	2	3						1	1												3684.2
1960											12	33	63	44	16	21	44	68	20	12	6	9	1	6	2	3	1	1	2	1	1				36216.9	
1961										25	27	14	31	52	38	30	73	30	17	7	7	3	4	2	3	1	1								19536.4	
1962										9	6	20	36	77	65	64	36	18	12	8	1	3	3	1	2	2	1		1						19165.4	
1963							1	2	3	13	31	36	22	35	49	47	49	29	22	6	7	1	3	3	1		2	2	1						17135.8	
1964						4	8	16	23	55	64	81	42	27	14	15	6	3	2	1	1	1	2												5691.1	
1965			1	2	5	1	2	16	46	29	18	37	47	52	55	21	10	4	7	3	4	2			1		1	1							13679.2	
1966					2	1	5	18	28	48	144	55	26	10	4	3	3	4	8	3	3														4692.8	

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	3652	100.0	9	3.60	169	3484	95.4	18	58.0	222	627	17.2	27	940	13	36	.9					
1	0.30	1	3652	100.0	10	4.90	268	3315	90.8	19	79.0	125	405	11.1	28	1300	8	23	.6					
2	0.40	1	3651	100.0	11	6.60	413	3047	83.4	20	110.0	80	280	7.7	29	1700	6	15	.4					
3	0.60	6	3650	99.9	12	9.00	329	2634	72.1	21	150.0	43	200	5.5	30	2400	3	9	.2					
4	0.80	6	3644	99.8	13	12.00	392	2305	63.1	22	200.0	41	157	4.3	31	3200	3	6	.1					
5	1.00	11	3638	99.6	14	17.00	397	1913	52.4	23	270.0	26	116	3.2	32	4400	2	3	.0					
6	1.40	22	3627	99.3	15	23.00	309	1516	41.5	24	370.0	20	90	2.5	33	6000	2	3	.0					
7	1.90	46	3605	98.7	16	31.00	290	1207	33.1	25	500.0	17	70	1.9	34	8200	1	1	.0					
8	2.60	75	3559	97.5	17	42.00	290	917	25.1	26	690.0	17	53	1.5										

## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## ROCK CREEK AT DOUGHERTY, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1958	15.00 10	15.00 10	15.40 10	15.90 10	16.90 10	21.50 10	32.80 10	90.90 10	97.40 10	262.00 10
1959	7.20 8	7.80 8	8.06 8	8.29 8	8.57 7	9.63 7	10.30 6	10.80 6	10.80 5	36.50 5
1960	0.90 2	1.07 2	1.86 4	2.25 4	3.14 3	3.80 3	4.42 2	4.59 2	10.30 4	60.20 8
1961	8.10 9	8.67 9	8.99 9	9.33 9	10.40 9	13.00 8	18.60 9	24.90 9	30.30 8	82.00 9
1962	5.00 6	5.13 6	5.80 6	6.39 6	6.73 6	9.16 6	11.10 7	15.40 7	27.30 7	40.20 5
1963	5.40 7	5.40 7	5.86 7	6.96 7	10.20 8	13.00 9	16.20 8	21.10 8	40.20 9	58.90 7
1964	1.80 5	2.17 5	2.83 5	3.24 5	3.98 5	4.97 4	5.33 4	5.57 3	6.28 2	19.40 3
1965	1.10 4	1.33 4	1.57 3	1.80 2	2.05 2	3.49 2	5.23 3	9.64 5	13.50 6	34.50 4
1966	0.90 3	1.13 3	1.41 2	2.20 3	3.92 4	5.36 5	6.00 5	6.53 4	7.12 3	19.20 2
1967	0.33 1	0.58 1	0.73 1	0.75 1	0.83 1	0.91 1	1.63 1	2.92 1	5.44 1	11.80 1

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## ROCK CREEK AT DOUGHERTY, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1957	10700.0 1	6580.0 1	3440.0 1	2220.0 1	1410.0 1	985.0 1	708.0 1	545.0 1	414.0 1	222.0 1
1958	1780.0 4	742.0 5	439.0 5	286.0 4	204.0 4	185.0 3	154.0 3	153.0 3	134.0 3	85.6 3
1959	271.0 9	173.0 9	90.4 10	51.9 10	33.0 10	21.6 10	18.5 10	16.0 10	14.5 10	10.6 10
1960	3680.0 2	1820.0 2	908.0 2	489.0 2	357.0 2	227.0 2	174.0 2	163.0 2	144.0 2	99.0 2
1961	1030.0 8	591.0 8	394.0 6	223.0 6	154.0 5	102.0 6	86.7 5	99.1 4	80.7 4	53.5 4
1962	1970.0 3	905.0 4	472.0 3	332.0 3	212.0 3	122.0 4	94.8 4	83.1 5	63.0 6	52.5 5
1963	1360.0 6	693.0 6	371.0 7	199.0 7	147.0 6	104.0 5	83.5 6	71.7 6	74.0 5	46.9 6
1964	1600.0 5	631.0 7	303.0 8	156.0 8	94.5 8	52.7 8	38.3 8	31.1 8	24.1 8	15.5 8
1965	1350.0 7	945.0 3	468.0 4	239.0 5	134.0 7	78.1 7	66.3 7	59.2 7	59.6 7	37.5 7
1966	170.0 10	161.0 10	139.0 9	87.6 9	53.9 9	31.2 9	22.8 9	22.0 9	18.4 9	13.4 9

## RED RIVER BASIN

07330500 CADD0 CREEK NEAR ARDMORE, OKLA.

LOCATION.--Lat 34°14'33", long 98°-6'23", on west line NW 1/4 sec.4, T.4 S., R.2 E., at county highway bridge, 0.5 mi (0.8 km) north of Ardmore and 10 mi (16 km) upstream from mouth.

DRAINAGE AREA.--298 mi<sup>2</sup> (772 km<sup>2</sup>).

PERIOD OF RECORD.--October 1936 to September 1950.

AVERAGE DISCHARGE.--14 years (1936-50), 154 ft<sup>3</sup>/s (4.36 m<sup>3</sup>/s).

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

CADD0 CREEK NEAR ARDMORE, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34		
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS		
1937	20							3	25	7	4	43	42	64	24	12	31	30	17	14	5	4	4	1	9					1	1				25583.7		
1938	24	1			5	23	9	5	15	6	15	38	22	17	46	19	24	20	25	12	7	8	5	6	4	2	1	2	1		1		2		52415.3		
1939	162	3	1		5	7	13	31	56	15	8	12	12	9	5	5	7	2	2	1	3	2	4												3422.0		
1940	29	2	4	27	10	11	26	22	20	53	14	3	21	13	9	8	10	13	12	5	9	10	10	7	1	4	6	5			2				45306.3		
1941		1	25	7		7	8	6	6	9	5	17	7	8	12	15	24	36	30	30	28	24	13	15	11	6	3	5	6	1					50793.7		
1942										4	8	13	12	8	14	10	5	45	26	38	52	28	26	12	12	14	10	6	7	2	3		1	4	3	2	128731.3
1943	49		3	3	2	9	2	7	7	13	7	7	20	39	20	36	24	17	20	20	15	7	14	5	3	1	4	4	2	2	1	1	1	1		66301.2	
1944	55	12	13	8	19	10	16	12	10	4	12	22	22	32	16	18	20	19	13	8	9	7	2	3	1	1	1	1	1						14023.8		
1945	21	3	3	1	3		3	3	5	7	11	6	11	19	24	33	29	19	23	14	28	15	22	10	10	13	8	3	3	8	2	2	2	1		152925.3	
1946	7	5	4	1	3	4	3	5	1	10	14	15	8	12	51	40	26	22	25	30	16	20	8	7	8	5	5	3	3	2		2			73110.5		
1947	4	11	6	4	11	4	6	4	13	27	5	9	6	47	36	33	30	12	17	11	12	14	11	7	4	4	3	3	3	5	2	3	2		80070.3		
1948	80	6	4	5	7	5	10	9	20	20	23	16	16	23	22	25	20	14	6	7	4	4	1	1	5										17538.9		
1949	128	4	6	6	2	2	10	6	7	8	10	9	8	14	14	27	22	17	15	11	10	2	6	4	3	6	3	3	1			1			36555.5		
1950								1	11	6	13	48	35	24	45	33	27	31	26	16	13	8	7	2	7	3	2	4	3							38919.0	

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	580	5113	100.0	9	2.50	194	3780	73.9	18	60.0	291	1286	25.2	27	1500	35	107	2.0
1	0.10	72	4533	88.7	10	3.50	162	3586	70.1	19	86.0	204	995	19.5	28	2100	24	72	1.4
2	0.20	51	4461	87.2	11	5.00	250	3424	67.0	20	120.0	184	791	15.5	29	3000	16	48	.9
3	0.30	55	4410	86.3	12	7.10	245	3174	62.1	21	180.0	126	607	11.9	30	4300	13	32	.6
4	0.40	74	4355	85.2	13	10.00	328	2929	57.3	22	250.0	124	481	9.4	31	6200	11	19	.3
5	0.60	83	4281	83.7	14	15.00	333	2601	50.9	23	360.0	84	357	7.0	32	8800	7	8	.1
6	0.80	104	4198	82.1	15	21.00	355	2268	44.4	24	510.0	59	273	5.3	33	13000	1	1	.0
7	1.20	118	4094	80.1	16	30.00	337	1913	37.4	25	730.0	57	214	4.2	34				
8	1.70	196	3976	77.8	17	42.00	290	1576	30.8	26	1000.0	50	157	3.1					

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

CADD0 CREEK NEAR ARDMORE, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1938	0.00 1	0.00 1	0.00 1	0.00 1	0.67 9	2.46 9	5.51 8	15.90 7	42.10 7	159.00 8
1939	0.00 2	0.00 2	0.00 2	0.00 2	0.00 1	0.00 1	0.00 1	0.02 2	1.01 2	25.60 2
1940	0.00 3	0.00 3	0.00 3	0.00 3	0.00 2	1.13 7	1.73 7	1.61 4	4.81 4	9.79 1
1941	0.00 4	0.07 10	0.09 10	0.11 9	0.13 7	0.36 5	1.30 5	19.60 8	71.70 9	181.00 9
1942	0.40 11	0.40 11	0.54 11	1.87 12	2.72 12	19.70 12	50.00 13	71.80 12	158.00 12	265.00 12
1943	0.60 12	0.63 12	0.67 12	1.26 11	1.89 11	12.90 11	20.60 10	24.80 9	84.60 11	221.00 11
1944	0.00 5	0.00 4	0.00 4	0.00 4	0.05 5	0.12 3	1.59 6	2.26 5	3.16 3	149.00 6
1945	0.00 6	0.00 5	0.00 5	0.00 5	0.03 4	0.89 6	1.09 4	10.30 6	20.40 6	191.00 10
1946	2.60 13	2.77 13	3.13 13	3.46 13	6.11 13	20.40 13	42.90 12	169.00 13	320.00 13	396.00 13
1947	0.00 7	0.00 6	0.00 6	0.24 10	0.44 8	5.43 10	21.60 11	62.70 11	75.00 10	131.00 5
1948	0.00 8	0.00 7	0.00 7	0.00 6	0.12 6	0.26 4	0.32 3	1.49 3	6.40 5	158.00 7
1949	0.00 9	0.00 8	0.00 8	0.00 7	0.00 3	0.00 2	0.00 2	0.00 1	0.08 1	45.90 3
1950	0.00 10	0.00 9	0.00 9	0.07 8	1.07 10	2.02 8	12.20 9	38.20 10	46.10 8	108.00 4

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

CADD0 CREEK NEAR ARDMORE, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1937	3160.0 9	1430.0 10	850.0 11	416.0 11	213.0 11	201.0 11	152.0 11	122.0 11	106.0 11	70.1 11
1938	12600.0 2	8520.0 2	4060.0 3	1970.0 3	1040.0 3	679.0 5	492.0 5	396.0 5	279.0 6	144.0 6
1939	337.0 14	258.0 14	116.0 14	61.9 14	50.6 14	27.1 14	22.5 14	23.3 14	17.8 14	9.4 14
1940	5830.0 8	2930.0 8	1490.0 8	1000.0 7	913.0 5	591.0 6	436.0 6	350.0 6	242.0 7	124.0 8
1941	2400.0 11	1460.0 9	966.0 9	593.0 10	421.0 9	322.0 9	270.0 9	242.0 9	214.0 8	139.0 7
1942	12200.0 3	10400.0 1	5410.0 2	2700.0 2	1810.0 1	983.0 2	682.0 2	519.0 2	370.0 3	353.0 2
1943	10600.0 4	6350.0 5	2950.0 5	1460.0 5	1010.0 4	743.0 3	558.0 3	424.0 3	287.0 5	182.0 5
1944	2110.0 12	1020.0 12	516.0 13	268.0 13	210.0 12	126.0 12	107.0 12	105.0 12	74.1 13	38.3 13
1945	16700.0 1	8040.0 3	5650.0 1	2900.0 1	1810.0 2	1230.0 1	916.0 1	807.0 1	674.0 1	419.0 1
1946	8700.0 5	3510.0 6	1870.0 6	1050.0 6	589.0 8	527.0 7	435.0 7	347.0 7	302.0 4	200.0 4
1947	6680.0 7	3400.0 4	3370.0 4	1650.0 4	848.0 6	692.0 4	550.0 4	417.0 4	377.0 2	219.0 3
1948	1350.0 13	967.0 13	600.0 12	329.0 12	192.0 13	111.0 13	107.0 13	97.1 13	89.9 12	47.9 12
1949	7570.0 6	3510.0 7	1600.0 7	778.0 8	697.0 7	397.0 8	323.0 8	252.0 8	183.0 9	100.0 10
1950	2980.0 10	1280.0 11	901.0 10	687.0 9	413.0 10	238.0 10	183.0 10	211.0 10	159.0 10	107.0 9

## STATISTICS OF ANNUAL DISCHARGE FOR WATER YEARS, 1937-50

Units of annual Discharge	Mean	Standard Deviation	Coefficient of Variation	Skew Coefficient	First Order Serial Correlation Coefficient
CFS	154	116	0.76	1.16	-0.05
LOGS of CFS	2.041	0.425		-1.154	-0.115

## 355

LOCATION.--Lat 34°14'03", long 96°58'32", in NW 1/4 SW 1/4 sec.3, T.4 S., R.3 E., Carter County, near left bank on downstream side of pier of bridge on U.S. Hi-hway 177, 1.3 mi (2.1 km) downstream from Caddo Creek, 4 mi (6.4 km) north of Durwood, and at mile 63.4 (102.0 km).

PERIOD OF RECORD.--August 1928 to September 1974

AVERAGE DISCHARGE.--46 years (1929-74), 1,379 ft<sup>3</sup>/s (39.0 m<sup>3</sup>/s).

REMARKS.--Some diversions above station for irrigation. Some regulation since March 1959 by Fort Cobb Reservoir, since February 1961 by Foss Reservoir, and by numerous flood-retarding structures.

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

WASHITA RIVER NEAR DURWOOD, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34																			
YEAR																																			NUMBER OF DAYS IN CLASS										CFS_DAYS									
1929																																			55 40 75 79 37 35 18 23 13 5 7										545833.0									
1930																																			2 4 51114 71 31 23 16 12 18 10 5 1										557833.0									
1931																																			1 24 47 34 95 14 33 14 10 9 4 1										309777.0									
1932																																			11 1 2 30 78 65 34 34 21 23 21 18 6 2										722144.0									
1933																																			5 41 40 67 55 24 34 15 10 10 5 5 5										553908.0									
1934																																			2 4 10 19 19 15 41107 52 42 21 10 20 2 1										307277.0									
1935																																			4127 51 31 19 27 31 25 25 9 3 5 3										775460.0									
1936																																			1 27 14 62130 48 21 10 20 15 9 3 4 2										425484.0									
1937																																			1 18 35127 66 50 24 17 14 7 5 3										279640.0									
1938																																			54 74 39 35 40 35 29 14 11 11 6 5 4 2 1										625465.0									
1939																																			3 12 37 77 97 46 34 26 12 7 10 4										142666.0									
1940																																			14 53 84 44 27 24 31 17 21 13 11 10 6 4 2										754989.0									
1941																																			5 59 7 46 74 56 19 18 28 24 26 12 6 5										717908.0									
1942																																			7 66 74 64 59 32 20 14 11 9 7 1 2										1818745.0									
1943																																			15 24 16 19103 74 30 25 16 17 16 7 1 1 1 1										832752.0									
1944																																			15 62 54 87 45 40 25 14 14 6 4										348561.0									
1945																																			13 46 68 34 24 46 34 28 14 24 8 10 3 2										1264900.0									
1946																																			6 24 24 42 86 57 28 17 12 10 4 7 1 1 1										864285.0									
1947																																			30 45102 60 20 23 22 12 18 9 9 9 6										926612.0									
1948																																			3 25 26 68 95 47 26 31 21 8 8 5 2 1										369731.0									
1949																																			16 19 77 27 56 45 25 23 15 12 13 6 6										628774.0									
1950																																			5 25105 44 49 30 34 18 13 18 10 5										705551.0									
1951																																			1 12 51151 63 18 12 8 14 14 6 7 6 2										654902.0									
1952																																			8 16 9 13 10 30 72 94 45 19 16 14 6 8 5 1 2										230087.0									
1953																																			23 15 5 13 25 33 86 47 24 28 21 18 9 8 7 2 2 1										189194.8									
1954																																			11 13 8 14 12 14 19 66 70 30 18 14 18 15 15 5 4 4 2										459342.3									
1955																																			24 18 32 58 60 46 27 27 10 15 13 10 5 2 5										320498.0									
1956																																			18 5 5 5 3 2 2 4 4 2 1 1 4 6 11 22 43 80 65 23 13 6 6 7										161207.9									
1957																																			7 1 1 1 1 1 1 3 1 1 1 1 1 1 18 33 58 34 40 26 27 19 13 19 10 8 18 14 13 4 3 1 1										1272841.8									
1958																																			5 11 16 38112 72 49 34 8 7 3										340485.0									
1959																																			32 72115 34 30 28 17 9 10 13 2 2 1										233767.0									
1960																																			12 15 18 60 67 84 53 24 11 5 5 1 5 1										583069.0									
1961																																			20 33101 84 44 33 24 17 5 3 1										414429.0									
1962																																			6 9 44104 68 43 41 17 11 12 6 3 1										491048.0									
1963																																			6 18 6 14 5 11 11 41 48103 46 14 21 7 2 6 1										229693.6									
1964																																			4 5 1 1 1 2 6 2 2 3 5 15 16 20 20 38 81 46 35 23 14 10 6 7 1 1 1 1										124475.6									
1965																																			4 7 20 14 27 19 86 71 37 34 18 11 9 4 1 2 1										298648.0									
1966																																			2 2 5 10 7 9 15 21 46121 43 37 14 23 6 4										162925.6									
1967																																			2 4 15 7 3 34149 41 23 30 16 11 9 7 6 2 2 2 1 1										159023.8									
1968																																			5 47 37 38 58 36 36 33 26 23 10 6 6 3 1 1										424744.0									
1969																																			3 10 18 24 40 61 53 47 42 26 13 13 9 4 2										555225.0									
1970																																			17 12 9 10 14 10 14104 61 43 18 15 19 7 6 2 2 1 1										227055.2									
1971																																			9 24 33 40 79 76 34 25 14 9 3 10 5 1 1 1 1										269141.0									
1972																																			2 21 17 10 12 10 12 36 62 74 37 26 16 15 7 6 3										174877.0									
1973																																			3 8 7 2 1 2 8 13 12 9 46 96 57 43 33 15 13 6 6 3 2 1										842304.6									
1974																																			2 8 13 12 9 46 96 57 43 33 15 13 6 6 3 2 1										721294.0									
CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT																				
0	0.00	25	16801	100.0	9	4.00	7	16719	99.5	18	170.0	1795	14044	83.6	27	7000	280	614	3.6	28	11000	157	334	1.9	29	16000	122	177	1.0	30	25000	36	55	.3																				
1	0.10	10	16776	99.9	10	6.00	23	16712	99.5	19	250.0	2344	12249	72.9	28	37000	11	19	.1	31	37000	6	8	.0	32	56000	2	2	.0	33	85000																							
2	0.20	11	16766	99.8	11	9.10	49	16689	99.3	20	380.0	2746	9905	59.0	29					32					34																													
3	0.30	7	16755	99.7	12	14.00	126	16590	98.7	21	580.0	2172	7159	42.6	30					33																																		
4	0.50	5	16748	99.7	13	21.00	98	16464	98.0	22	880.0	1401	4987	29.7	31																																							
5	0.80	1	16743	99.7	14	32.00	182	16366	97.4	23	1300.0	1156	3586	21.3	32																																							
6	1.10	5	16742	99.6	15	48.00	323	16184	96.3	24	2000.0	805	2430	14.5	33																																							
7	1.70	9	16737	99.6	16	73.00	739	15861	94.4	25	3100.0	571	1625	9.7	34																																							
8	2.60	9	16728	99.6	17	110.00	1078	15122	90.0	26	4700.0	404	1054	6.3																																								

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## WASHITA RIVER NEAR DURKOO, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1930	230.00 41	230.00 41	230.00 39	234.00 39	266.00 33	444.00 37	699.00 39	714.00 36	845.00 38	1630.00 35
1931	110.00 24	141.00 29	165.00 32	141.00 32	245.00 35	309.00 29	337.00 28	433.00 28	619.00 25	1590.00 32
1932	85.00 14	100.00 21	100.00 14	102.00 19	117.00 14	218.00 23	269.00 22	291.00 20	531.00 21	1330.00 26
1933	165.00 34	167.00 35	170.00 34	201.00 33	223.00 28	238.00 25	248.00 19	333.00 23	611.00 24	1390.00 27
1934	134.00 30	142.00 30	160.00 30	215.00 36	244.00 34	393.00 30	633.00 38	625.00 34	725.00 30	1400.00 28
1935	17.00 10	22.70 11	46.50 13	53.10 12	67.20 11	116.00 12	263.00 26	422.00 27	587.00 23	845.00 11
1936	500.00 43	502.00 43	529.00 44	598.00 44	405.00 42	424.00 35	448.00 31	769.00 40	764.00 33	2150.00 39
1937	94.00 22	106.00 22	119.00 22	120.00 21	136.00 21	202.00 22	305.00 27	371.00 24	691.00 28	1100.00 21
1938	96.00 23	121.00 23	127.00 24	135.00 23	146.00 22	176.00 16	200.00 16	217.00 14	451.00 18	1260.00 25
1939	63.00 20	65.00 18	84.70 17	86.90 17	92.50 15	176.00 17	168.00 13	191.00 11	211.00 9	998.00 16
1940	53.00 12	37.70 13	38.60 12	42.20 10	56.20 10	66.00 7	67.30 7	83.50 5	99.50 4	330.00 4
1941	62.60 16	63.30 15	66.60 15	75.20 15	82.50 13	92.10 11	126.00 10	201.00 12	454.00 19	989.00 14
1942	260.00 42	267.00 42	295.00 42	334.00 42	576.00 44	831.00 45	1060.00 44	1240.00 44	5240.00 45	3460.00 43
1943	460.00 45	520.00 45	600.00 45	613.00 45	646.00 45	720.00 43	897.00 43	916.00 41	1420.00 42	2770.00 42
1944	134.00 31	134.00 26	143.00 25	153.00 25	172.00 23	193.00 21	206.00 17	216.00 13	267.00 11	1850.00 17
1945	162.00 36	170.00 36	179.00 35	212.00 35	325.00 37	410.00 34	467.00 33	539.00 32	578.00 23	1780.00 37
1946	504.00 44	504.00 44	519.00 43	534.00 43	444.00 43	742.00 44	1070.00 45	1570.00 45	2970.00 44	3840.00 45
1947	234.00 40	221.00 40	233.00 41	263.00 41	370.00 39	429.00 36	531.00 35	717.00 37	1120.00 40	1530.00 29
1948	136.00 32	139.00 27	144.00 26	158.00 27	201.00 25	231.00 24	281.00 25	326.00 22	386.00 16	2380.00 40
1949	61.00 14	63.50 14	95.40 16	97.20 14	106.00 17	125.00 13	186.00 15	189.00 10	259.00 10	1010.00 17
1950	144.00 35	176.00 38	187.00 36	207.00 34	239.00 30	288.00 28	407.00 29	465.00 30	521.00 20	1600.00 33
1951	111.00 25	182.00 39	230.00 40	251.00 40	397.00 41	405.00 32	432.00 30	439.00 29	705.00 29	2020.00 38
1952	126.00 26	145.00 31	153.00 28	155.00 26	190.00 24	241.00 26	255.00 21	271.00 19	306.00 13	1610.00 34
1953	4.00 9	10.60 8	11.50 7	12.10 6	12.60 5	17.20 2	26.00 3	43.80 2	74.10 1	549.00 6
1954	35.00 15	36.00 12	36.40 11	47.50 11	109.00 18	167.00 20	246.00 18	402.00 26	762.00 31	900.00 12
1955	6.10 3	6.37 3	6.50 3	8.46 3	14.60 6	28.00 4	65.90 5	120.00 7	125.00 6	916.00 13
1956	66.00 18	78.50 17	106.00 21	128.00 22	206.00 26	242.00 27	254.00 20	257.00 17	642.00 27	1070.00 18
1957	0.00 1	0.00 1	0.00 1	0.00 1	0.10 1	1.19 1	18.60 1	34.80 1	97.60 3	266.00 2
1958	136.00 33	145.00 32	160.00 29	164.00 28	207.00 27	467.00 39	753.00 41	750.00 39	847.00 37	3790.00 44
1959	89.00 21	98.70 20	101.00 20	103.00 20	104.00 16	126.00 14	143.00 11	152.00 9	161.00 8	568.00 7
1960	122.00 27	125.00 25	144.00 27	167.00 29	237.00 29	606.00 42	708.00 40	955.00 42	1120.00 41	1540.00 30
1961	120.00 26	123.00 24	126.00 23	145.00 24	240.00 31	409.00 33	461.00 32	508.00 31	797.00 34	1190.00 23
1962	171.00 34	173.00 37	191.00 37	214.00 37	393.00 40	524.00 40	589.00 37	731.00 36	1060.00 39	1100.00 22
1963	130.00 29	141.00 28	169.00 33	174.00 30	256.00 32	400.00 31	487.00 34	649.00 35	812.00 35	1230.00 24
1964	4.60 8	11.20 9	12.60 8	14.20 8	17.70 7	47.00 6	55.50 4	56.20 3	74.70 2	270.00 3
1965	0.10 2	0.10 2	0.50 2	0.64 2	2.82 2	78.50 8	175.00 14	256.00 16	420.00 17	725.00 10
1966	22.00 11	22.70 10	31.60 10	61.10 14	86.50 14	186.00 19	277.00 24	373.00 25	623.00 26	677.00 9
1967	6.40 4	8.20 6	14.20 9	25.90 9	47.70 9	81.40 9	88.80 8	92.10 6	124.00 5	256.00 1
1968	7.00 6	7.93 5	10.60 6	12.70 7	16.80 8	86.10 10	112.00 9	139.00 8	127.00 7	624.00 8
1969	165.00 37	165.00 34	192.00 38	227.00 38	341.00 38	461.00 38	556.00 36	577.00 33	776.00 32	1540.00 31
1970	64.00 17	66.50 16	73.50 16	85.10 16	127.00 20	179.00 18	274.00 23	268.00 18	303.00 12	1090.00 20
1971	9.60 7	9.60 7	10.60 5	10.70 4	13.20 5	36.40 5	66.40 6	239.00 15	842.00 36	992.00 15
1972	34.00 13	36.70 14	48.90 14	53.60 13	77.10 12	135.00 15	155.00 12	322.00 21	334.00 15	468.00 5
1973	6.40 5	7.33 4	9.37 4	11.30 5	12.70 4	21.70 3	24.30 2	65.50 4	329.00 14	1070.00 19
1974	142.00 34	152.00 33	161.00 31	188.00 31	304.00 36	591.00 41	878.00 42	1170.00 43	2120.00 43	2530.00 41



HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

WASHITA RIVER NEAR DURWOOD, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1929	15400.0 31	13200.0 28	11400.0 23	8140.0 21	6950.0 14	4450.0 16	3490.0 16	3010.0 16	2370.0 16	1500.0 19
1930	16600.0 30	15900.0 22	11700.0 21	9910.0 17	7540.0 11	5360.0 12	3900.0 13	3080.0 15	2480.0 14	1530.0 17
1931	8620.0 42	6460.0 42	4080.0 40	3490.0 35	2240.0 35	1900.0 32	1680.0 31	1470.0 30	1280.0 29	849.0 30
1932	16900.0 29	14200.0 27	10300.0 24	8540.0 20	6320.0 20	4420.0 17	3310.0 17	2630.0 18	2430.0 16	1970.0 10
1933	21600.0 19	19100.0 18	11400.0 22	10200.0 16	5790.0 22	3420.0 22	2940.0 21	2460.0 20	2070.0 19	1460.0 20
1934	7460.0 43	5220.0 43	3680.0 43	3020.0 39	2240.0 36	1350.0 39	1250.0 37	1120.0 38	977.0 37	842.0 31
1935	35400.0 10	30100.0 8	22300.0 9	13900.0 7	10600.0 6	7710.0 6	6010.0 6	4900.0 5	3690.0 5	2120.0 8
1936	22500.0 18	14300.0 26	8350.0 30	5200.0 29	3410.0 29	2890.0 24	2060.0 28	1650.0 28	1540.0 26	1160.0 24
1937	9200.0 40	6810.0 40	3900.0 41	2190.0 45	1620.0 42	1220.0 42	1060.0 40	1130.0 37	984.0 36	766.0 33
1938	57200.0 6	41400.0 6	23100.0 7	11600.0 11	6190.0 21	4890.0 13	4420.0 12	4350.0 10	3160.0 10	1710.0 15
1939	3760.0 46	3390.0 46	3030.0 45	2410.0 43	1540.0 44	1030.0 45	832.0 45	717.0 44	584.0 45	391.0 45
1940	12000.0 36	10300.0 32	6740.0 32	3820.0 34	3230.0 31	2710.0 26	2160.0 26	1840.0 26	1290.0 28	697.0 35
1941	20800.0 22	19900.0 17	18000.0 12	13500.0 8	9450.0 9	6720.0 8	5620.0 7	4470.0 7	3240.0 9	1970.0 11
1942	61600.0 4	49400.0 4	29500.0 3	16500.0 4	13100.0 2	8630.0 3	6980.0 3	5470.0 4	4190.0 3	3890.0 1
1943	85400.0 2	56700.0 2	31800.0 2	19800.0 2	13100.0 3	8170.0 4	6070.0 4	4760.0 6	3460.0 6	2280.0 7
1944	10400.0 39	8350.0 38	6260.0 33	4680.0 31	3440.0 27	2500.0 29	2200.0 23	2010.0 24	1580.0 25	952.0 27
1945	44300.0 7	31200.0 7	23500.0 6	16100.0 5	9560.0 8	8140.0 5	6250.0 4	6840.0 2	5770.0 2	3520.0 2
1946	61200.0 5	44800.0 5	25400.0 5	13300.0 9	7290.0 12	4070.0 20	2950.0 20	3100.0 14	2880.0 13	2370.0 5
1947	30800.0 14	26300.0 10	23000.0 8	17500.0 3	11900.0 5	8940.0 2	7360.0 2	5730.0 3	3950.0 4	2540.0 4
1948	17300.0 26	12300.0 30	8810.0 27	5370.0 28	3430.0 28	2560.0 28	2070.0 27	1870.0 25	1740.0 22	1060.0 26
1949	20800.0 23	18600.0 21	15700.0 14	11500.0 12	10100.0 7	6480.0 9	4710.0 11	3900.0 12	3070.0 12	1720.0 14
1950	73400.0 3	55000.0 3	29400.0 4	15200.0 6	9050.0 10	5490.0 11	5060.0 9	4430.0 8	3330.0 8	1930.0 12
1951	26400.0 16	23700.0 13	21200.0 10	13300.0 10	12200.0 4	7430.0 7	5410.0 8	4260.0 11	3080.0 11	1790.0 13
1952	15100.0 33	10900.0 31	6260.0 34	5450.0 27	3330.0 30	2280.0 30	1710.0 30	1390.0 32	1050.0 34	629.0 38
1953	17200.0 27	9770.0 34	5920.0 35	3290.0 37	1860.0 41	1240.0 41	1190.0 38	1180.0 36	934.0 39	518.0 40
1954	27100.0 15	24000.0 12	14300.0 15	11100.0 13	6900.0 15	4500.0 14	3110.0 19	2390.0 21	1660.0 23	1260.0 22
1955	23800.0 17	21000.0 16	12300.0 19	6940.0 25	4370.0 24	3050.0 23	2170.0 24	1740.0 27	1490.0 27	878.0 29
1956	12000.0 37	10000.0 33	7460.0 31	4540.0 32	2560.0 34	1430.0 37	1040.0 41	837.0 42	642.0 43	440.0 43
1957	87800.0 1	71200.0 1	43100.0 1	31300.0 1	22600.0 1	17200.0 1	12400.0 1	9560.0 1	6660.0 1	3490.0 3
1958	9120.0 41	7240.0 39	4440.0 39	2850.0 41	2120.0 38	1710.0 36	1560.0 32	1440.0 31	1250.0 31	934.0 28
1959	15300.0 32	8400.0 37	5010.0 37	3400.0 36	2640.0 33	1740.0 35	1550.0 33	1310.0 34	1120.0 33	640.0 36
1960	32400.0 12	23400.0 15	13300.0 18	7540.0 23	4170.0 25	2610.0 27	2170.0 25	2120.0 23	1980.0 20	1590.0 16
1961	14500.0 34	8490.0 36	4890.0 38	3260.0 38	2090.0 39	1820.0 33	1510.0 34	1330.0 33	1260.0 30	1140.0 25
1962	17200.0 28	12700.0 29	9520.0 26	8880.0 19	6330.0 18	3540.0 21	2630.0 22	2140.0 22	1610.0 24	1350.0 21
1963	10500.0 38	6650.0 41	3770.0 42	2320.0 44	1460.0 46	1420.0 38	1150.0 39	968.0 40	941.0 38	629.0 37
1964	14400.0 35	9360.0 35	5380.0 36	2970.0 40	1870.0 40	1090.0 43	840.0 44	681.0 46	556.0 46	340.0 46
1965	20600.0 24	15400.0 24	9690.0 25	5500.0 26	3440.0 26	1940.0 31	1470.0 35	1230.0 35	1000.0 35	818.0 32
1966	4550.0 45	3920.0 45	2740.0 46	1760.0 46	1600.0 43	1040.0 44	808.0 46	707.0 45	611.0 44	501.0 41
1967	20500.0 25	15500.0 23	8530.0 29	4820.0 30	2790.0 32	1820.0 34	1410.0 36	1090.0 39	749.0 41	436.0 44
1968	30900.0 13	19000.0 19	12000.0 20	7140.0 24	6840.0 16	4230.0 19	3140.0 18	2630.0 19	1980.0 21	1160.0 23
1969	21400.0 21	18600.0 20	13600.0 17	9730.0 18	6550.0 17	4420.0 18	3610.0 14	3160.0 13	2460.0 15	1520.0 18
1970	21500.0 20	15200.0 25	8770.0 28	4280.0 33	2190.0 37	1270.0 40	1040.0 42	926.0 41	842.0 40	622.0 39
1971	42300.0 8	24800.0 11	14100.0 16	8110.0 22	5280.0 23	2850.0 25	1980.0 29	1580.0 29	1140.0 32	737.0 34
1972	6600.0 44	4910.0 44	3550.0 44	2450.0 42	1530.0 45	935.0 46	929.0 43	795.0 43	665.0 42	478.0 42
1973	33600.0 11	23500.0 14	16800.0 13	10800.0 15	7160.0 13	5880.0 10	4800.0 10	4380.0 9	3350.0 7	2310.0 6
1974	37200.0 9	28200.0 9	18200.0 11	11000.0 14	6320.0 19	4500.0 15	3500.0 15	2800.0 17	2370.0 17	1980.0 9

## MONTHLY DURATION TABLE

WASHITA RIVER NEAR OKMULGEE, OKLAHOMA

PERIOD 1926-1974

CLASS LIMIT	TOTAL PERCENT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
0.00	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0.10	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	99.8	99.5	100.0	100.0
0.14	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.6	99.4	99.4	100.0	100.0
0.22	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.2	98.2	99.4	100.0	100.0
0.33	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.1	99.2	99.3	100.0	100.0
0.50	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.0	97.9	99.3	100.0	100.0
0.75	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	98.6	97.6	99.2	100.0	100.0
1.10	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.4	98.8	99.2	100.0	100.0
1.70	99.6	100.0	100.0	100.0	100.0	100.0	100.0	99.9	98.6	97.8	99.2	100.0	100.0
2.60	99.6	100.0	100.0	100.0	100.0	100.0	100.0	99.5	98.4	97.8	99.1	100.0	100.0
4.00	99.5	100.0	100.0	100.0	100.0	100.0	100.0	99.4	98.0	97.8	98.4	100.0	100.0
5.00	99.5	100.0	100.0	100.0	100.0	100.0	100.0	99.3	97.8	97.8	98.8	100.0	100.0
9.10	99.3	100.0	100.0	100.0	100.0	100.0	100.0	98.9	97.3	97.2	98.5	100.0	100.0
14.00	98.7	100.0	100.0	100.0	100.0	100.0	100.0	98.7	95.9	96.4	98.1	100.0	100.0
21.00	98.0	100.0	100.0	100.0	100.0	100.0	100.0	97.8	90.2	94.4	94.2	99.6	100.0
32.00	97.4	100.0	100.0	100.0	100.0	100.0	100.0	96.6	88.5	91.8	93.5	99.7	100.0
48.00	96.3	99.6	100.0	100.0	100.0	100.0	100.0	94.2	86.3	88.4	92.1	96.0	99.3
73.00	94.4	98.2	99.9	98.5	100.0	99.6	99.6	89.5	83.0	85.0	90.1	91.7	97.9
110.00	90.0	92.6	97.6	95.9	98.0	99.1	97.5	84.5	79.2	80.6	80.5	85.0	90.2
170.00	83.6	86.3	91.8	90.2	92.0	96.6	94.1	78.0	71.6	69.2	71.6	80.0	83.6
250.00	72.9	75.5	79.4	79.6	86.2	90.3	89.1	70.2	57.0	55.1	57.7	67.7	68.0
380.00	59.0	55.0	61.7	68.7	74.6	82.2	82.8	60.7	35.9	41.5	46.9	48.6	49.4
580.00	42.6	31.2	33.6	48.6	57.3	73.1	70.8	44.4	21.2	31.9	35.1	31.7	32.0
880.00	24.7	17.5	21.6	30.9	40.1	59.9	54.2	25.8	13.3	22.0	25.2	21.2	19.6
1300.00	21.3	6.6	14.7	19.7	28.2	49.6	47.9	16.3	8.8	17.0	16.7	14.1	12.6
2000.00	14.5	4.8	9.2	12.1	18.4	38.6	35.3	10.4	5.2	11.8	13.3	9.0	5.5
3100.00	9.7	2.7	5.3	7.4	13.0	28.8	25.3	6.5	2.9	7.2	8.6	5.4	2.9
4700.00	6.3	1.5	2.5	5.1	8.2	22.3	16.1	3.6	1.5	4.1	5.0	3.4	2.0
7000.00	3.7	0.7	1.3	2.1	5.5	14.3	9.6	2.0	0.7	2.0	2.9	1.9	0.6
11000.00	2.0	0.3	0.5	1.0	3.1	8.2	4.7	0.8	0.1	1.2	2.0	1.4	0.5
16000.00	1.1	0.2	0.4	0.6	1.7	4.6	2.1	0.2	0.0	0.7	1.2	0.6	0.3
25000.00	0.3	0.0	0.2	0.2	0.5	1.7	0.2	0.0	0.0	0.1	0.6	0.3	0.1
37000.00	0.1	0.0	0.1	0.1	0.0	0.7	0.0	0.0	0.0	0.1	0.3	0.1	0.0
56000.00	0.0	0.0	0.1	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.1	0.1	0.0
85000.00	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0

## STATISTICS OF ANNUAL DISCHARGE FOR WATER YEARS, 1929-74

Units of annual Discharge	Mean	Standard Deviation	Coefficient of Variation	Skew Coefficient	First Order Serial Correlation Coefficient
CFS	1,379	859	0.62	1.15	0.19
LOGS of CFS	3.059	0.272		-0.036	0.208



## 07332000 RED RIVER NEAR COLBERT, OKLA.

LOCATION.--Lat 33°49'06", long 96°31'23", in NE 1/4 sec.36, T.8 S., R.7 E., near center of span on downstream side of pier of highway bridge, 1.1 mi (1.8 km) downstream from Sand Creek, 2.5 mi (4.0 km) south of Colbert, 2.9 mi (4.7 km) downstream from Denison Dam, and at mile 723.0 (1,163 km).

DRAINAGE AREA.--39,777 mi<sup>2</sup> (103,022 km<sup>2</sup>), of which 5,936 mi<sup>2</sup> (15,374 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD.--October 1923 to Sept. 1960. Statistical summaries for this station are divided into unregulated and regulated periods.

AVERAGE DISCHARGE.--20 years (1924-43, 5,684 ft<sup>3</sup>/s (161 m<sup>3</sup>/s); 15 years (1945-59), 4,984 ft<sup>3</sup>/s (141 m<sup>3</sup>/s).

REMARKS.--Flow regulated since October 31, 1943 by Lake Texhoma.

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

## RED RIVER NEAR CULBERT, OKLAHOMA

[illegible]

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	7305	100.0	9	360.00	138	8991	95.7	18	1300.00	466	2506	35.1	27	31000	78	242	3.3
1	49.00	1	7305	100.0	10	450.00	350	8853	93.8	19	4200.00	416	2100	28.7	28	39000	51	164	2.2
2	63.00	6	7304	100.0	11	580.00	510	6503	89.0	20	5400.00	351	1684	23.1	29	50000	46	113	1.5
3	80.00	4	7304	100.0	12	750.00	426	5993	82.0	21	6900.00	312	1333	18.2	30	64000	26	67	.9
4	100.00	12	7300	99.9	13	960.00	499	5567	76.2	22	8900.00	189	1021	14.0	31	82000	21	41	.5
5	130.00	19	7288	99.8	14	1200.00	761	5068	69.4	23	11000.00	220	832	11.4	32	110000	13	20	.2
6	170.00	88	7269	99.5	15	1600.00	542	4307	59.0	24	15000.00	134	612	8.4	33	140000	5	7	.0
7	220.00	76	7181	98.3	16	2000.00	661	3765	51.5	25	19000.00	125	478	6.5	34	170000	2	2	.0
8	280.00	114	7105	47.3	17	2600.00	538	3104	42.5	26	24000.00	111	353	4.8					

## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## RED RIVER NEAR COLBERT, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	185	ANNUAL
1925	470.00 14	470.00 13	485.00 11	500.00 9	572.00 11	662.00 9	687.00 3	685.00 3	764.00 2	2270.00 2
1926	315.00 6	322.00 5	351.00 5	347.00 6	413.00 7	474.00 11	1020.00 8	1010.00 4	2440.00 10	4140.00 5
1927	690.00 17	828.00 17	1090.00 18	1680.00 19	2150.00 18	3390.00 19	3700.00 19	4210.00 19	6140.00 18	7120.00 16
1928	880.00 18	893.00 16	920.00 16	940.00 16	1170.00 16	1480.00 15	1870.00 15	2220.00 15	2820.00 14	5630.00 15
1929	320.00 7	324.00 6	346.00 7	376.00 8	450.00 8	655.00 7	916.00 6	1170.00 5	1290.00 4	5420.00 13
1930	452.00 12	480.00 14	531.00 13	603.00 13	684.00 13	1560.00 16	1920.00 16	2000.00 15	2540.00 12	5120.00 11
1931	380.00 10	394.00 10	447.00 9	534.00 12	568.00 10	656.00 8	812.00 5	2690.00 17	3760.00 16	5520.00 14
1932	150.00 4	153.00 3	154.00 3	182.00 3	230.00 3	478.00 3	1500.00 14	1430.00 6	2050.00 7	4770.00 9
1933	452.00 13	461.00 12	476.00 10	503.00 10	521.00 9	608.00 5	960.00 7	1650.00 10	2490.00 11	5030.00 10
1934	620.00 15	643.00 15	680.00 14	730.00 14	962.00 15	1110.00 14	1310.00 13	1430.00 7	2120.00 8	4420.00 8
1935	85.00 2	91.70 1	106.00 1	123.00 1	164.00 1	302.00 2	742.00 4	1480.00 6	1700.00 5	2370.00 3
1936	690.00 16	760.00 16	822.00 15	837.00 15	875.00 14	979.00 12	1040.00 9	2070.00 14	1920.00 6	7940.00 17
1937	324.00 8	326.00 7	333.00 6	342.00 5	377.00 6	648.00 6	1050.00 10	1600.00 9	3150.00 15	4300.00 7
1938	426.00 11	450.00 11	491.00 12	524.00 11	651.00 12	1100.00 13	1180.00 12	1720.00 11	2420.00 9	5270.00 12
1939	330.00 9	334.00 9	343.00 8	354.00 7	371.00 5	488.00 4	512.00 2	602.00 1	771.00 3	4030.00 4
1940	90.00 3	95.00 2	107.00 2	145.00 2	181.00 2	206.00 1	220.00 1	288.00 1	326.00 1	1210.00 1
1941	195.00 5	247.00 4	258.00 4	272.00 4	345.00 4	779.00 10	1080.00 11	1760.00 12	2570.00 13	4170.00 6
1942	1020.00 19	1070.00 19	1250.00 19	1560.00 18	2480.00 19	2870.00 18	2990.00 18	3560.00 16	13500.00 19	15900.00 19
1943	49.00 1	333.00 8	1070.00 17	1300.00 17	1410.00 17	1700.00 17	2330.00 17	2340.00 16	4580.00 17	8880.00 18

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## RED RIVER NEAR COLBERT, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	185	ANNUAL
1924	143000.0 4	125000.0 4	88300.0 4	56400.0 4	37700.0 4	25300.0 4	20200.0 4	15900.0 4	11600.0 5	7660.0 5
1925	114000.0 6	91300.0 6	55500.0 8	32500.0 9	16900.0 13	10500.0 13	7180.0 15	5690.0 16	5870.0 14	3330.0 17
1926	28000.0 18	25600.0 18	21600.0 17	14600.0 17	11200.0 15	9220.0 15	7450.0 14	6500.0 14	6300.0 13	4280.0 12
1927	113000.0 7	78600.0 9	62000.0 6	46000.0 5	27400.0 6	15400.0 9	12100.0 8	11400.0 8	9060.0 9	8260.0 3
1928	95700.0 9	83900.0 6	52900.0 9	30000.0 13	21100.0 11	19200.0 6	15100.0 6	13100.0 7	9380.0 6	5980.0 9
1929	86800.0 10	64500.0 11	47900.0 12	31600.0 11	24100.0 7	14000.0 10	11100.0 10	9290.0 10	7850.0 10	4710.0 11
1930	43700.0 16	40300.0 15	31500.0 13	30000.0 12	22500.0 9	15700.0 8	11000.0 11	8750.0 11	6870.0 12	4190.0 13
1931	49900.0 15	42900.0 13	28100.0 15	17200.0 15	10300.0 18	8040.0 17	6780.0 16	5440.0 17	5450.0 16	3810.0 15
1932	50100.0 14	36700.0 16	29600.0 14	27800.0 14	21200.0 10	14200.0 11	11600.0 9	9430.0 9	9390.0 7	7150.0 6
1933	97000.0 8	86600.0 7	56900.0 7	40200.0 7	23500.0 8	13200.0 12	10700.0 12	8560.0 12	7070.0 11	4790.0 10
1934	21700.0 20	19200.0 20	13800.0 19	8370.0 20	5360.0 20	4080.0 19	3910.0 19	3620.0 19	2950.0 19	2300.0 19
1935	180000.0 1	140000.0 2	110000.0 1	68700.0 2	48000.0 3	34000.0 2	24900.0 2	20100.0 2	14600.0 2	8150.0 4
1936	79400.0 11	71600.0 10	48500.0 11	32000.0 10	16600.0 14	8490.0 16	6060.0 17	5980.0 15	5740.0 15	3830.0 14
1937	55000.0 13	42100.0 14	25300.0 16	16900.0 16	11000.0 16	6860.0 16	5640.0 18	5020.0 18	4330.0 18	3540.0 16
1938	132000.0 5	113000.0 5	70000.0 5	36600.0 6	20100.0 12	17100.0 7	15000.0 7	15700.0 5	11800.0 4	6760.0 7
1939	27500.0 19	21400.0 19	13100.0 20	9220.0 19	5370.0 19	3640.0 20	2920.0 20	2730.0 20	2200.0 20	1470.0 20
1940	40600.0 17	29200.0 17	18200.0 18	13800.0 18	10900.0 17	9400.0 14	7460.0 13	6510.0 13	5080.0 17	2710.0 18
1941	173000.0 2	141000.0 1	109000.0 2	82200.0 1	58000.0 1	42300.0 1	33200.0 1	25800.0 1	18400.0 1	10800.0 2
1942	156000.0 3	133000.0 3	92600.0 3	59500.0 3	50300.0 2	33800.0 3	24300.0 3	19000.0 3	14500.0 3	13400.0 1
1943	57400.0 12	55900.0 12	49700.0 10	42700.0 6	33700.0 5	22300.0 5	16700.0 5	13200.0 6	9440.0 6	6560.0 8





## RED RIVER BASIN

363

07332400 BLUE CREEK AT MILBURN, OKLA.  
(Headwater of Blue River)

LOCATION.--Lat 34°15'04", long 96°33'05", in SW 1/4 SW 1/4 sec.35, T.3 S., R.7 E., Johnston County, on downstream side of left bank pier of bridge on State Highway 48A, 0.5 mi (0.8 km) north of Milburn, and at mile 84.9 (136.6 km).

DRAINAGE AREA.--203 mi<sup>2</sup> (526 km<sup>2</sup>).

PERIOD OF RECORD.--October 1965 to September 1974.

AVERAGE DISCHARGE.--9 years (1966-74), 154 ft<sup>3</sup>/s (4.36 m<sup>3</sup>/s).

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

## BLUE CREEK AT MILBURN, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS
1966	38	140	75	40	26	18	6	4	2	1	2	1	2	3	1	1	2				1				1										20730.0
1967	48	102	36	12	20	20	35	28	17	16	9	3	2	4	1	2			1	2	2	1	1							1		1	1		38142.0
1968				17	28	43	53	17	33	45	30	28	13	14	11	7	2	7	4	4	3				2		3	1					1		75326.0
1969				12	76	41	33	32	24	31	32	27	16	10	6	4	1	3	5	2	4			2				2	1	1					64870.0
1970				38	29	15	64	39	58	40	35	12	8	4	4	2	3	1	4	1	1	2	1	1			1			2					49678.0
1971				73	35	52	28	45	39	25	16	24	6	6	2	4	2	1	1	2	1	1											1	1	50027.0
1972				13	42	39	44	80	47	24	10	24	5	6	4	3	1	1	1	1						1		1							30397.0
1973				3	17	4	21	26	28	25	26	25	37	15	32	23	15	15	13	5	5	3	5	6	4		4	2	1	1		3		1	100686.0
1974					13	31	20	10	31	46	75	67	14	17	8	7	5	3	3	1	4			3		1	1	1	1	1			2		76809.0

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	3287	100.0	9	85.00	235	1365	41.5	18	430.0	16	147	4.5	27	2200	6	24	.7					
1	20.00	48	3287	100.0	10	100.00	255	1130	34.4	19	510.0	24	131	4.0	28	2600	3	18	.5					
2	24.00	156	3239	98.5	11	120.00	267	875	26.6	20	610.0	20	107	3.3	29	3100	4	15	.4					
3	29.00	308	3083	93.8	12	150.00	119	608	18.5	21	740.0	17	87	2.6	30	3700	3	11	.3					
4	34.00	216	2775	84.4	13	170.00	127	489	14.9	22	880.0	19	70	2.1	31	4500	1	8	.2					
5	41.00	266	2559	77.9	14	210.00	76	362	11.0	23	1100.0	7	51	1.6	32	5300	1	7	.2					
6	49.00	319	2293	69.8	15	250.00	61	286	8.7	24	1300.0	6	44	1.3	33	6400	3	6	.1					
7	59.00	331	1974	60.1	16	300.00	43	225	6.8	25	1500.0	7	38	1.2	34	7700	3	3	.0					
8	71.00	278	1643	50.0	17	360.00	35	182	5.5	26	1800.0	7	31	0.9										

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## BLUE CREEK AT MILBURN, OKLAHOMA

YEAR	1		3		7		14		30		60		90		120		183		ANNUAL	
1967	20.00	1	20.70	1	21.50	2	22.50	1	22.50	1	23.50	1	24.00	1	24.50	1	26.60	1	46.70	1
1968	20.00	2	20.70	2	21.10	1	40.20	5	42.20	5	55.80	7	73.20	7	74.40	5	80.40	4	172.00	4
1969	48.00	8	48.00	8	48.70	8	49.10	8	49.70	7	53.40	5	56.30	5	67.80	4	86.90	5	195.00	7
1970	41.00	6	41.30	6	42.90	6	43.40	6	46.40	6	54.30	6	61.80	6	78.50	7	109.00	6	180.00	6
1971	35.00	5	35.30	5	36.30	5	39.00	4	39.10	4	42.30	4	49.40	4	76.20	6	126.00	7	178.00	5
1972	29.00	4	29.30	4	29.70	4	29.90	3	31.10	3	32.60	3	35.90	3	36.90	3	44.90	2	80.50	2
1973	26.00	3	26.70	3	27.70	3	28.60	2	30.20	2	30.90	2	32.20	2	34.30	2	45.80	3	133.00	3
1974	43.00	7	43.70	7	44.10	7	45.30	7	51.20	8	71.30	8	107.00	8	140.00	8	223.00	8	317.00	8

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## BLUE CREEK AT MILBURN, OKLAHOMA

YEAR	1		3		7		15		30		60		90		120		183		ANNUAL	
1966	1600.0	9	726.0	9	350.0	9	214.0	9	138.0	9	89.2	9	93.8	9	82.9	9	68.1	9	56.8	9
1967	5300.0	5	2880.0	5	1330.0	5	764.0	6	456.0	6	289.0	6	293.0	6	236.0	6	182.0	6	104.0	7
1968	7430.0	3	3410.0	4	2060.0	3	1130.0	4	771.0	4	511.0	4	462.0	3	398.0	2	329.0	2	206.0	3
1969	3400.0	7	2070.0	7	1220.0	6	996.0	5	720.0	5	481.0	5	407.0	4	361.0	4	282.0	4	178.0	4
1970	3500.0	6	2330.0	6	1090.0	7	562.0	7	326.0	7	222.0	7	201.0	7	166.0	7	159.0	7	136.0	6
1971	14100.0	1	7430.0	1	3340.0	2	1630.0	2	967.0	2	545.0	3	394.0	5	315.0	5	229.0	5	137.0	5
1972	2390.0	8	1160.0	8	833.0	8	497.0	8	320.0	8	213.0	8	166.0	8	146.0	8	117.0	8	83.1	8
1973	7010.0	4	3610.0	3	1830.0	4	1340.0	3	851.0	3	711.0	1	615.0	1	570.0	1	433.0	1	276.0	1
1974	11500.0	2	7370.0	2	3510.0	1	1900.0	1	1070.0	1	637.0	2	479.0	2	390.0	3	297.0	3	210.0	2

## RED RIVER BASIN

07332500 BLUE RIVER NEAR BLUE, OKLA.

LOCATION.--Lat 33°59'49", long 96°14'27", on line between secs. 27 and 34, T.6 S., R.10 E., Bryan County, near left bank on downstream side of pier of bridge on U.S. Highway 70, 1.0 mi (1.6 km) west of Blue, 7.0 mi (11.3 km) east of Durant, 7.7 mi (12.4 km) upstream from Caddo Creek, and at mile 38.8 (62.4 km).

DRAINAGE AREA.--476 mi<sup>2</sup> (1,233 km<sup>2</sup>).

PERIOD OF RECORD.--June 1936 to September 1974.

AVERAGE DISCHARGE.--38 years (1937-74), 301 ft<sup>3</sup>/s (8.52 m<sup>3</sup>/s).

REMARKS.--Some regulation at low flow by State Fish Hatchery, 16.0 mi (25.7 km) above station. Small diversion above station for municipal water supply of city of Durant.

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

BLUE RIVER NEAR BLUE, OKLAHOMA

CLASS      0   1   2   3   4   5   6   7   8   9   10   11   12   13   14   15   16   17   18   19   20   21   22   23   24   25   26   27   28   29   30   31   32   33   34

[illegible]

CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT
0	0.00	20	13879	100.0	4	2.90	26	13742	99.0	18	68.0	1937	6593	47.5	27	2600	139	339	2.4
1	0.10	2	13851	99.8	6	4.30	48	13716	98.8	19	130.0	1330	4656	33.5	28	3800	108	200	1.4
2	0.20	5	13849	99.8	11	6.30	53	13668	98.5	20	190.0	960	3326	24.0	29	5600	56	92	0.6
3	0.30	2	13844	99.7	12	9.10	72	13615	98.1	21	270.0	693	2366	17.0	30	8200	22	36	0.2
4	0.40	14	13842	99.7	13	13.00	301	13543	97.6	22	400.0	457	1673	12.1	31	12000	10	14	0.1
5	0.70	15	13825	99.6	14	19.00	1066	13242	95.4	23	580.0	327	1216	8.8	32	17000	2	4	0.0
6	1.00	35	13808	99.5	15	26.00	1892	12174	87.7	24	850.0	213	889	6.4	33	25000	2	2	0.0
7	1.40	15	13775	99.3	16	41.00	1837	10262	74.1	25	1200.0	193	676	4.9	34				
8	2.00	20	13762	99.2	17	90.00	1852	6445	60.8	26	1800.0	144	483	3.5					



## MONTHLY DURATION TABLE

BLUE RIVER NEAR BLUE, OKLAHOMA

PERIOD 1936-1974

CLASS LIMIT	TOTAL PERCENT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
0.00	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0.10	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	98.9	98.6	100.0	100.0
0.14	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	98.8	98.6	100.0	100.0
0.21	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.7	98.7	98.6	100.0	100.0
0.31	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.7	98.5	98.6	100.0	100.0
0.45	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.6	98.2	98.6	100.0	100.0
0.65	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	98.7	97.8	98.6	100.0	100.0
0.95	99.5	100.0	100.0	100.0	100.0	100.0	100.0	99.9	98.1	97.2	98.6	100.0	100.0
1.40	99.3	100.0	100.0	100.0	100.0	100.0	100.0	99.1	97.9	95.4	98.6	100.0	100.0
2.00	99.2	100.0	100.0	100.0	100.0	100.0	100.0	98.8	97.5	95.4	98.2	100.0	100.0
3.00	99.0	100.0	100.0	100.0	100.0	100.0	100.0	98.6	97.4	95.1	97.2	99.9	100.0
4.30	98.8	100.0	100.0	100.0	100.0	100.0	100.0	98.5	96.7	94.7	96.7	99.4	100.0
6.30	98.5	100.0	100.0	100.0	100.0	100.0	99.8	97.8	96.3	94.1	95.4	98.4	100.0
9.10	98.1	100.0	100.0	100.0	100.0	100.0	99.7	97.5	94.7	93.6	94.6	97.4	99.8
13.00	97.6	99.9	100.0	99.9	100.0	100.0	99.6	96.5	93.5	92.7	93.8	95.4	99.7
19.00	95.4	98.0	99.9	99.3	100.0	99.9	98.5	92.7	89.7	85.9	91.2	93.0	97.0
28.00	87.7	89.6	95.0	94.5	97.1	98.3	95.1	82.7	76.4	71.7	77.2	86.1	89.6
41.00	74.1	75.5	84.3	86.9	93.4	95.4	86.0	70.5	54.2	49.7	56.0	66.4	71.6
60.00	60.8	67.8	76.5	77.7	85.4	86.1	72.7	54.2	33.0	32.0	40.0	46.8	59.3
88.00	47.5	56.5	60.9	63.9	72.7	72.8	60.2	34.0	19.8	21.1	30.3	33.9	45.2
130.00	33.5	36.5	43.2	47.7	52.5	58.6	45.2	21.0	10.7	15.4	21.1	23.3	28.4
190.00	24.0	22.7	29.5	33.3	41.6	45.6	34.2	11.9	5.9	11.1	16.1	15.9	20.5
270.00	17.0	13.2	19.4	23.8	31.8	35.7	24.0	7.6	4.2	9.1	11.4	10.4	14.5
400.00	12.1	9.2	13.8	16.4	23.5	25.5	15.9	5.2	2.5	7.5	8.6	7.8	9.3
580.00	8.8	6.6	9.4	11.8	17.8	18.4	11.7	3.6	2.0	5.5	6.9	5.4	6.3
850.00	6.4	4.6	6.6	7.8	13.9	13.8	8.9	2.9	1.5	3.7	5.3	4.0	3.9
1200.00	4.9	2.5	4.9	6.0	11.4	10.5	7.0	2.2	0.8	3.0	3.8	3.7	2.8
1800.00	3.5	1.7	3.5	4.3	8.7	8.1	4.6	1.8	0.2	1.8	2.9	2.9	1.5
2600.00	2.4	1.0	2.4	3.1	6.0	5.8	3.5	1.0	0.1	1.3	2.0	2.5	0.8
3800.00	1.4	0.2	1.7	2.0	3.6	3.4	2.3	0.6	0.0	0.7	0.8	1.7	0.5
5600.00	0.7	0.0	0.9	0.9	1.7	1.9	1.0	0.1	0.0	0.3	0.2	0.6	0.5
8200.00	0.3	0.0	0.5	0.3	0.6	0.6	0.4	0.0	0.0	0.2	0.2	0.3	0.2
12000.00	0.1	0.0	0.2	0.1	0.2	0.3	0.2	0.0	0.0	0.2	0.0	0.1	0.1
17000.00	0.0	0.0	0.2	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
25000.00	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

## STATISTICS OF ANNUAL DISCHARGE FOR WATER YEARS, 1937-74

Units of annual Discharge	Mean	Standard Deviation	Coefficient of Variation	Skew Coefficient	First Order Serial Correlation Coefficient
CFS	301	195	0.65	1.48	0.13
LOGS of CFS	2.388	0.304		-0.772	0.082



## RED RIVER BASIN

367

## 07333500 CHICKASAW CREEK NEAR STRINGTOWN, OKLA.

LOCATION.--Lat 34°27'41", long 96°01'36", in NE 1/4 NE 1/4 sec.22, T.1 S., R.12 E., on upstream side of right abutment of bridge on county road, 1.5 mi (2.4 km) east of Stringtown, 2.2 mi (3.5 km) upstream from Little Chickasaw Creek, 3.6 mi (5.8 km) downstream from Breadtown Creek, and at mile 5.0 (8.0 km).

DRAINAGE AREA.--32.7 mi<sup>2</sup> (84.7 km<sup>2</sup>).

PERIOD OF RECORD.--October 1955 to September 1968.

AVERAGE DISCHARGE.--13 years (1956-68) 30.4 ft<sup>3</sup>/s (0.860 m<sup>3</sup>/s).

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

## CHICKASAW CREEK NEAR STRINGTOWN, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34		
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS		
1956	147									46	10	15	52	32	17	14	10	5	4	3	1	2														1776.2	
1957	170									5	5	2	11	1	5	4	6	9	13	8	14	19	15	13	14	8	5	13	5	2	6	4	2	5		1	26935.9
1958	40									7	15	12	20	9	13	14	25	21	33	34	30	13	18	20	13	8	4	5	4	3	1	2	1			11201.5	
1959	168									22	16	9	9	10	6	14	11	14	15	14	11	12	8	7	2	2	2	3	3	2	2				1	8005.4	
1960	35									21	13	3	29	17	19	12	18	29	28	22	26	21	16	16	9	9	6	3	3	2	3	2	1	2	1		14755.8
1961	40									9	10	13	11	21	27	31	39	35	25	28	15	14	12	12	8	6	2	2	3			1	1			4980.7	
1962	23									5	3	1	10	8	34	30	40	38	31	28	16	22	19	16	12	7	4	4	10	1	1			1		10515.5	
1963	104									6	2	5	21	5	31	13	24	22	32	30	25	12	8	5	4	3	3	2	2	3	1		1		1	8350.1	
1964	203									1	1	5	18	17	13	9	15	13	13	13	9	7	7	3	3	4	2	1	1	4	1	1	1	1		7992.4	
1965	80									1	8	2	10	15	25	20	42	22	29	23	23	16	14	8	7	6	3	5	2			1	2	1		7475.4	
1966	160									9	9	2	52	18	18	16	20	12	10	5	5	6	5	2	2	2	2	1	3	3			1	1	1	8260.8	
1967	103	1	2	1	6	4				43	22	22	30	11	16	11	15	7	11	11	8	9	5	7	2	2	6	1	1	2			2	2		12626.3	
1968										12	1	15	9	9	20	8	22	11	20	23	29	39	26	27	22	19	10	12	3	8	4	3	4	3	2	5	21666.7

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	1273	4749	100.0	9	0.30	100	3136	66.0	18	9.3	209	1060	22.3	27	280	25	102	2.1					
1	0.01	1	3476	73.2	10	0.40	293	3036	63.9	19	14.0	180	851	17.9	28	410	21	77	1.6					
2	0.02	2	3475	73.2	11	0.70	172	2743	57.8	20	20.0	149	671	14.1	29	610	20	56	1.1					
3	0.03	1	3473	73.1	12	1.00	246	2571	54.1	21	29.0	130	522	11.0	30	890	10	36	.7					
4	0.04	6	3472	73.1	13	1.40	199	2325	49.0	22	42.0	89	342	8.3	31	1300	17	26	.5					
5	0.06	16	3466	73.0	14	2.00	285	2126	44.8	23	62.0	69	303	6.4	32	1900	8	9	.1					
6	0.09	1	3450	72.6	15	3.00	250	1841	38.8	24	91.0	42	234	4.9	33	2400	1	1	.0					
7	0.10	190	3449	72.6	16	4.30	273	1591	33.5	25	130.0	49	192	4.0	34									
8	0.20	123	3259	68.6	17	6.40	258	1318	27.8	26	190.0	41	143	3.0										

## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## CHICKASAW CREEK NEAR STRINGTOWN, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1957	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	12.80 2
1958	0.00 2	0.00 2	0.00 2	0.00 2	0.00 2	0.01 6	0.48 7	21.80 11	30.90 11	85.00 12
1959	0.00 3	0.00 3	0.00 3	0.00 3	0.00 3	0.00 2	0.00 2	0.00 2	0.00 2	14.30 4
1960	0.00 4	0.00 4	0.00 4	0.04 12	0.60 12	1.10 11	16.30 12	25.70 12	51.80 12	38.50 10
1961	0.00 5	0.00 5	0.00 5	0.00 5	0.03 9	1.08 10	1.16 10	2.61 7	6.32 6	30.70 8
1962	0.00 6	0.00 6	0.00 6	0.00 5	0.00 4	0.79 9	1.10 9	1.55 6	6.62 7	22.40 6
1963	0.00 7	0.00 7	0.00 7	0.00 6	0.37 11	1.46 12	3.34 11	10.80 10	18.60 9	29.20 7
1964	0.00 8	0.00 8	0.00 8	0.00 7	0.00 5	0.00 3	0.00 3	0.00 3	0.00 3	6.55 1
1965	0.00 9	0.00 9	0.00 9	0.00 8	0.00 6	0.01 7	0.17 6	2.99 8	15.10 8	32.90 9
1966	0.00 10	0.00 10	0.00 10	0.00 9	0.00 7	0.00 4	0.10 5	0.49 5	0.50 5	15.40 5
1967	0.00 11	0.00 11	0.00 11	0.00 10	0.00 8	0.00 5	0.05 4	0.10 4	0.10 4	13.90 3
1968	0.00 12	0.00 12	0.00 12	0.00 11	0.04 10	0.25 8	0.91 8	5.59 9	26.60 10	64.60 11

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## CHICKASAW CREEK NEAR STRINGTOWN, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1956	658.0 12	396.0 12	174.0 13	102.0 12	51.2 13	25.9 13	17.5 13	14.4 13	9.6 13	4.9 13
1957	3640.0 1	1320.0 2	1020.0 1	715.0 1	408.0 1	523.0 1	250.0 1	196.0 1	133.0 1	73.8 1
1958	1580.0 10	649.0 11	306.0 11	186.0 10	118.0 10	98.0 6	72.6 6	60.8 6	53.9 5	30.7 5
1959	2130.0 8	838.0 9	530.0 5	303.0 6	155.0 6	78.1 9	58.0 9	55.4 7	43.5 6	21.9 9
1960	1930.0 6	1290.0 3	580.0 4	342.0 4	208.0 4	115.0 4	82.7 5	66.5 5	58.4 4	40.3 3
1961	643.0 13	329.0 13	193.0 12	99.7 13	54.9 12	40.6 12	32.4 12	31.4 12	24.1 12	13.6 12
1962	2310.0 5	857.0 8	391.0 9	201.0 8	129.0 7	86.3 10	51.8 10	42.9 10	44.8 7	28.8 6
1963	2630.0 4	957.0 6	419.0 7	228.0 7	129.0 8	99.0 5	69.0 7	52.6 8	38.8 9	22.0 7
1964	1980.0 7	887.0 7	401.0 8	190.0 4	129.0 9	79.1 8	59.3 8	47.3 9	37.5 10	21.8 10
1965	1340.0 11	696.0 10	322.0 10	154.0 11	80.0 11	41.3 11	45.0 11	40.6 11	32.4 11	20.5 11
1966	2670.0 3	979.0 5	472.0 6	316.0 5	165.0 5	84.0 7	90.4 4	68.2 4	45.1 6	22.6 8
1967	2770.0 2	1400.0 1	714.0 3	378.0 2	261.0 2	139.0 3	93.5 3	70.6 3	68.7 3	34.6 4
1968	1880.0 9	1160.0 4	723.0 2	373.0 3	252.0 3	216.0 2	177.0 2	145.0 2	111.0 2	59.2 2

## STATISTICS OF ANNUAL DISCHARGE FOR WATER YEARS, 1956-68

Units of annual Discharge	Mean	Standard Deviation	Coefficient of Variation	Skew Coefficient	First Order Serial Correlation Coefficient
CFS	30.4	18.5	0.61	1.26	-0.28
LOGS of CFS	1.405	0.292		-0.891	-0.474

## RED RIVER BASIN

07333800 MCGEE CREEK NEAR STRINGTOWN, OKLA.

LOCATION.--Lat 34°26'33", long 95°52'10", in NE 1/4 sec.30, T.1 S., R.14 E., on right bank 10.6 mi (17.1 km) east of Stringtown, 17.5 mi (28.2 km) upstream from Potapo Creek, and at mile 22.7 (36.5 km).

DRAINAGE AREA.--86.6 mi<sup>2</sup> (224 km<sup>2</sup>).

PERIOD OF RECORD.--April 1956 to September 1968.

AVERAGE DISCHARGE.--12 years (1957-68), 89.7 ft<sup>3</sup>/s (2.54 m<sup>3</sup>/s).

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

MCGEE CREEK NEAR STRINGTOWN, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	
YEAR	NUMBER OF DAYS IN CLASS																																		CFS DAYS	
1957	89						5	13	11	6	17	9	12	10	14	19	13	10	14	11	19	21	16	8	11	7	8	5	7	5	1	3	1			72752.4
1958	9						2	11	6	2	11	9	26	21	23	26	36	29	28	32	25	19	16	15	7	2		4	4		2				33027.3	
1959	18						2	6	6	8	9	46	49	22	18	25	22	13	20	11	11	13	2	9	3	4	4	1	1	2	4				33952.1	
1960	25						5	14	6	4	12	24	24	14	14	22	27	25	31	28	21	14	16	7	6	4	5	6	3	1	1	2			43844.6	
1961	23						6	16	10	7	14	21	23	27	19	32	23	27	20	21	17	11	20	6	7	8		4	1						18525.0	
1962	40						5	7	3	4	13	12	14	13	14	37	24	40	20	22	21	17	22	13	5	4	4	5	2			1			31079.2	
1963	105						1	6	4	2	5	5	58	32	20	36	30	24	11	11	8	4	7	5	2	1	4	2							14391.3	
1964	221						1	13	3	3	6	4	6	15	17	19	11	11	5	4	4	6	3	3	2	1	2			5	1				15130.2	
1965	64						22	8	2	5	14	5	12	29	35	26	22	26	23	17	19	10	9	7	3	2	1	1			1				18257.0	
1966	90						14	18	14	13	21	23	27	26	20	29	17	8	11	6	4	5	3	3	3	1	3	1	1	2	1			1		24708.0
1967	82	1	1			1	1	7	18	21	8	34	25	23	19	18	16	13	10	13	8	9	7	8	3	3	3	2			1	3	2		34829.3	
1968						1	9	12	8	7	12	21	25	18	17	25	16	34	30	28	21	20	15	13	8	5	4	4	6	5	1	1			53244.1	

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	766	4363	100.0	9	0.60	69	3299	75.3	18	22.0	232	1230	28.1	27	87.0	35	111	2.5					
1	0.01	1	3617	82.5	10	0.80	209	3250	73.7	19	33.0	199	998	22.8	28	1300	34	76	1.7					
2	0.02	1	3616	82.5	11	1.50	204	3021	68.4	20	50.0	179	799	18.2	29	2000	17	42	.9					
3	0.03	0	3615	82.5	12	1.90	284	2817	64.3	21	75.0	147	620	14.1	30	3000	14	25	.5					
4	0.04	2	3615	82.5	13	2.90	246	2553	57.8	22	110.0	137	475	10.8	31	4500	9	11	.2					
5	0.07	1	3613	82.4	14	4.50	229	2287	52.2	23	170.0	89	336	7.7	32	6700	2	2	.0					
6	0.10	77	3612	82.4	15	6.50	312	2058	47.0	24	260.0	60	247	5.6	33									
7	0.20	142	3535	80.7	16	9.70	259	1746	39.8	25	380.0	38	187	4.3	34									
8	0.40	94	3393	77.4	17	15.00	257	1487	33.4	26	580.0	38	149	3.4										

## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

MCGEE CREEK NEAR STRINGTOWN, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1957	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.60 2	33.40 2
1958	0.00 2	0.00 2	0.00 2	0.00 2	0.00 2	1.37 9	2.55 9	4.05 8	72.70 11	226.00 12
1959	0.00 3	0.00 3	0.00 3	0.11 11	1.52 10	1.65 7	2.22 6	2.41 5	3.45 5	55.00 6
1960	0.00 4	0.00 4	0.00 4	0.05 9	1.79 11	5.11 11	79.60 12	73.50 12	109.00 12	140.00 10
1961	0.00 5	0.00 5	0.00 5	0.08 10	0.79 8	3.03 10	2.89 7	13.80 8	21.10 6	66.30 9
1962	0.00 6	0.00 6	0.00 6	0.49 12	2.44 12	13.30 12	10.90 11	18.20 10	33.20 9	79.70 8
1963	0.00 7	0.00 7	0.00 7	0.00 3	0.00 2	1.40 6	7.30 10	9.31 7	32.90 8	54.40 5
1964	0.00 8	0.00 8	0.00 8	0.00 4	0.00 3	0.00 2	0.00 2	0.00 2	0.02 1	13.70 1
1965	0.00 9	0.00 9	0.00 9	0.00 5	0.00 4	0.00 3	0.10 3	2.70 6	27.20 7	66.30 7
1966	0.00 10	0.00 10	0.00 10	0.00 6	0.01 6	0.50 5	0.64 4	1.42 4	1.29 3	45.90 4
1967	0.00 11	0.00 11	0.00 11	0.00 7	0.00 5	0.01 4	0.78 5	0.88 3	1.67 4	42.40 3
1968	0.00 12	0.00 12	0.00 12	0.00 8	0.04 7	1.88 8	4.34 9	17.20 9	69.50 10	177.00 11

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

MCGEE CREEK NEAR STRINGTOWN, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1957	6740.0 1	5070.0 2	2270.0 1	1600.0 1	1010.0 1	787.0 1	640.0 1	507.0 1	353.0 1	199.0 1
1958	4250.0 7	1960.0 8	890.0 8	516.0 8	291.0 8	250.0 6	176.0 7	151.0 7	155.0 6	90.5 6
1959	3940.0 8	2270.0 7	1630.0 3	1170.0 2	594.0 4	361.0 4	247.0 5	219.0 3	180.0 4	93.0 5
1960	4930.0 5	3380.0 1	1530.0 4	852.0 5	514.0 5	284.0 5	207.0 6	173.0 6	174.0 5	119.0 3
1961	1330.0 12	945.0 11	584.0 11	301.0 10	179.0 10	137.0 11	114.0 10	102.0 9	84.3 9	50.2 9
1962	5520.0 3	2340.0 6	1080.0 7	574.0 7	376.0 7	218.0 8	166.0 8	139.0 8	148.0 7	85.1 7
1963	1760.0 11	941.0 12	443.0 12	299.0 11	161.0 12	157.0 9	110.0 11	83.7 12	64.6 12	39.4 12
1964	2350.0 10	1450.0 9	688.0 9	329.0 9	231.0 9	155.0 10	115.0 9	88.2 11	70.5 11	41.3 11
1965	3370.0 9	1310.0 10	593.0 10	283.0 12	171.0 11	106.0 12	91.8 12	98.1 10	73.3 10	50.0 10
1966	6700.0 2	2990.0 4	1390.0 6	852.0 6	438.0 6	221.0 7	252.0 4	190.0 5	126.0 8	67.7 8
1967	5180.0 4	3050.0 3	1860.0 2	1050.0 3	730.0 2	368.0 3	263.0 3	200.0 4	189.0 3	95.4 4
1968	4520.0 6	2720.0 5	1430.0 5	898.0 4	628.0 3	475.0 2	397.0 2	356.0 2	271.0 2	146.0 2

## STATISTICS OF ANNUAL DISCHARGE FOR WATER YEARS, 1957-68

Units of annual Discharge	Mean	Standard Deviation	Coefficient of Variation	Skew Coefficient	First Order Serial Correlation Coefficient
CFS	89.7	47.2	0.53	1.17	0.28
LOGS of CFS	1.901	0.220		0.192	0.376





## MONTHLY DURATION TABLE

MUDDY HOGGY CREEK NEAR FAHRIS, OKLAHOMA

PERIOD 1937-1974

CLASS LIMIT	TOTAL PERCENT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
0.00	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0.03	96.7	99.6	100.0	100.0	100.0	100.0	100.0	100.0	97.3	91.8	84.5	91.1	93.1
0.05	96.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	97.3	91.6	84.5	91.1	93.1
0.07	96.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	97.3	91.3	84.5	91.1	93.1
0.11	96.1	94.5	100.0	100.0	100.0	100.0	99.9	96.3	84.5	84.8	84.7	92.5	97.6
0.17	96.0	94.5	100.0	100.0	100.0	100.0	99.9	96.2	84.4	84.8	84.7	92.5	97.6
0.25	95.5	94.2	100.0	100.0	100.0	100.0	99.7	94.6	87.0	87.7	87.6	92.5	97.4
0.39	95.0	94.4	100.0	100.0	100.0	100.0	99.6	93.9	85.1	87.6	86.4	92.2	97.0
0.60	94.0	94.1	94.8	100.0	100.0	100.0	99.5	91.5	83.2	87.0	84.3	86.8	95.4
0.92	92.7	97.1	99.8	100.0	100.0	100.0	94.2	84.3	79.0	84.0	82.2	87.4	95.1
1.40	91.3	95.6	99.7	100.0	100.0	100.0	94.4	87.3	75.2	81.5	76.3	84.4	94.7
2.20	88.7	92.9	94.7	100.0	100.0	100.0	97.5	83.3	70.4	77.9	73.0	80.8	90.3
3.40	86.4	91.4	94.3	100.0	100.0	100.0	95.8	79.2	66.0	71.3	70.2	76.8	87.5
5.20	83.7	88.7	98.4	98.5	100.0	100.0	94.8	74.4	60.8	65.0	65.4	74.7	85.0
7.90	80.4	85.9	96.7	97.2	99.9	100.0	92.3	68.0	54.8	57.6	60.5	71.3	82.0
12.00	77.1	82.6	94.5	95.6	94.7	99.8	88.8	62.7	48.5	52.3	57.0	67.7	76.6
19.00	72.0	75.9	92.2	92.3	96.4	98.2	83.6	54.0	39.7	45.2	52.0	62.9	73.3
29.00	65.5	69.9	86.1	88.9	91.1	94.3	76.8	45.3	31.6	38.9	46.0	54.2	63.8
44.00	58.1	64.0	78.2	83.8	85.0	89.1	67.3	37.2	25.8	31.9	37.8	44.8	53.5
68.00	50.5	57.5	68.5	74.8	74.0	80.3	56.5	28.2	21.2	26.9	32.8	37.5	45.2
100.00	44.2	49.3	54.9	67.3	71.6	73.0	48.7	22.1	17.8	22.8	28.5	31.6	39.0
160.00	36.8	38.2	50.2	58.2	64.4	63.0	40.5	18.0	13.7	19.3	23.0	24.3	30.4
250.00	30.3	29.5	41.4	47.2	55.0	54.1	32.8	14.8	10.2	16.8	18.7	19.8	24.9
380.00	25.0	22.2	33.2	36.8	47.0	47.2	27.7	12.7	7.8	13.4	15.2	16.8	20.2
580.00	20.1	16.9	26.1	29.7	38.0	38.0	22.7	10.6	5.8	12.1	12.6	15.2	16.2
890.00	16.3	12.8	20.6	23.8	31.2	31.6	18.4	8.4	4.3	9.8	10.5	16.5	13.2
1400.00	13.1	9.2	15.3	18.9	27.2	26.7	14.3	7.1	3.3	7.7	8.5	8.6	10.1
2100.00	10.3	6.8	12.1	15.4	22.2	20.8	11.6	5.8	2.1	5.8	7.1	7.0	7.3
3200.00	8.0	3.7	9.5	11.3	16.1	17.8	9.6	4.4	1.7	4.1	5.2	5.6	4.7
5000.00	5.4	2.1	5.6	6.8	13.2	12.8	6.5	2.7	1.0	3.3	4.1	4.1	2.5
7600.00	3.3	1.6	3.6	4.4	8.3	9.0	3.9	1.1	0.5	1.9	2.3	2.5	1.2
12000.00	1.4	0.0	1.4	1.2	4.1	3.8	2.4	0.4	0.2	1.1	0.9	1.0	0.6
18000.00	0.5	0.0	0.7	0.3	1.4	0.9	1.0	0.3	0.0	0.3	0.3	0.5	0.3
28000.00	0.1	0.0	0.4	0.0	0.3	0.0	0.4	0.0	0.0	0.0	0.0	0.2	0.2
43000.00	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

## STATISTICS OF ANNUAL DISCHARGE FOR WATER YEARS, 1938-74

Units of annual Discharge	Mean	Standard Deviation	Coefficient of Variation	Skew Coefficient	First Order Serial Correlation Coefficient
CFS	913	577	0.63	1.32	0.02
LOGS of CFS	2.878	0.281		-0.395	0.041





LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## CLEAR BOGGY CREEK NEAR CANEY, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1944	5.70 11	6.03 12	6.87 12	7.39 9	8.28 9	17.10 14	23.90 13	24.40 11	28.20 7	506.00 20
1945	10.00 18	10.30 18	10.90 18	12.10 17	16.20 18	22.30 16	29.50 14	61.60 17	96.70 13	901.00 28
1946	36.00 31	36.00 30	36.70 30	36.70 30	54.90 30	96.90 29	144.00 27	330.00 29	73.00 30	1410.00 30
1947	11.00 20	11.30 20	12.00 21	14.40 24	16.40 19	27.20 17	69.90 21	59.80 16	190.00 21	547.00 22
1948	8.80 16	8.90 15	9.44 16	10.90 15	13.50 14	16.40 12	16.50 10	19.60 9	47.40 10	513.00 21
1949	12.00 24	12.30 23	12.70 23	13.20 20	13.80 15	14.70 11	15.40 8	16.70 8	22.70 6	428.00 16
1950	11.00 21	11.30 21	11.90 20	13.10 19	22.30 21	26.60 19	67.60 20	92.70 19	121.00 16	461.00 18
1951	25.00 29	25.30 29	31.30 29	38.10 29	45.70 29	48.00 25	48.80 18	49.60 14	188.00 18	699.00 25
1952	6.60 13	7.10 13	8.24 13	9.21 12	10.10 11	14.60 10	15.90 9	40.00 13	55.30 11	235.00 7
1953	0.40 5	0.47 5	0.59 4	0.89 4	1.04 4	1.42 2	2.20 2	3.57 2	8.12 3	187.00 6
1954	13.00 25	13.00 25	13.60 24	14.90 25	22.40 22	53.40 27	80.50 22	101.00 21	108.00 15	399.00 15
1955	0.00 1	0.00 1	0.00 1	0.00 1	0.01 2	1.87 3	4.81 4	16.40 7	35.50 9	359.00 12
1956	0.80 7	0.80 7	0.90 6	1.31 7	4.73 7	10.20 8	10.30 7	11.90 6	55.60 12	123.00 3
1957	0.00 2	0.00 2	0.00 2	0.00 2	0.00 1	0.00 1	0.00 1	0.00 1	1.30 1	106.00 2
1958	21.00 27	21.00 27	21.00 27	21.40 27	28.80 26	46.10 24	173.00 28	447.00 30	570.00 29	1410.00 31
1959	11.00 22	11.70 22	12.60 22	13.40 21	14.40 16	18.30 15	18.70 11	24.10 10	31.80 8	249.00 8
1960	5.90 12	5.90 11	6.43 11	7.47 10	25.50 24	28.60 20	176.00 29	243.00 27	267.00 25	456.00 17
1961	13.00 26	13.30 26	13.60 25	14.20 23	23.80 23	38.20 23	95.80 24	94.10 20	134.00 17	373.00 13
1962	10.00 19	11.00 19	11.70 19	13.50 22	44.20 28	101.00 30	108.00 26	135.00 26	197.00 22	340.00 11
1963	8.10 14	8.40 14	8.99 14	10.10 14	16.10 17	27.80 18	96.70 25	122.00 22	240.00 24	322.00 10
1964	0.40 6	0.47 6	0.66 5	1.02 5	2.45 5	3.95 4	4.38 3	5.54 3	8.08 2	103.00 1
1965	0.00 3	0.00 3	0.00 3	0.04 3	0.56 3	6.40 7	38.10 17	125.00 24	189.00 19	288.00 9
1966	1.60 8	1.67 8	2.10 8	3.51 8	5.33 8	7.60 6	8.39 6	8.92 5	11.20 4	158.00 5
1967	0.39 4	0.43 4	1.00 7	1.16 6	2.57 6	4.92 5	7.11 5	7.42 4	13.00 5	129.00 4
1968	3.80 9	4.00 9	4.89 9	9.54 13	12.80 13	36.50 22	279.00 30	282.00 28	349.00 27	765.00 27
1969	22.00 28	22.00 28	23.10 28	25.20 28	30.40 27	51.60 26	53.40 19	58.90 15	189.00 20	711.00 26
1970	12.00 23	12.70 24	13.90 26	17.60 26	28.10 25	33.70 21	35.00 16	61.70 18	313.00 26	667.00 24
1971	8.80 15	9.17 16	9.93 17	11.30 16	12.70 12	16.50 13	30.00 15	124.00 23	409.00 28	492.00 19
1972	9.00 17	9.27 17	9.34 15	12.30 18	16.90 20	62.20 28	84.50 23	129.00 25	225.00 23	399.00 14
1973	3.90 10	5.03 10	6.23 10	7.61 11	8.68 10	11.90 9	23.30 12	29.90 12	99.70 14	622.00 23
1974	35.00 30	37.30 31	42.00 31	44.50 31	118.00 31	133.00 31	297.00 31	484.00 31	885.00 31	1120.00 29

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## CLEAR BOGGY CREEK NEAR CANEY, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1943	35700.0 1	19800.0 3	9860.0 4	4760.0 7	2920.0 9	1790.0 9	1310.0 10	1000.0 11	706.0 17	403.0 14
1944	7500.0 22	6670.0 21	4350.0 22	2340.0 24	1720.0 21	1110.0 20	1020.0 16	1030.0 10	729.0 15	379.0 17
1945	24900.0 3	20400.0 2	13400.0 1	7810.0 2	6800.0 1	5400.0 1	4070.0 1	3950.0 1	2900.0 1	1670.0 1
1946	11300.0 13	10000.0 8	6210.0 10	3900.0 12	2210.0 13	1560.0 11	1330.0 9	1170.0 8	920.0 9	614.0 9
1947	29800.0 2	23400.0 1	12800.0 2	6200.0 3	3200.0 6	2170.0 6	1500.0 8	1140.0 9	1240.0 6	741.0 6
1948	11000.0 14	8430.0 17	5440.0 17	2760.0 19	1850.0 19	1690.0 10	1250.0 11	971.0 13	886.0 10	485.0 13
1949	13400.0 7	9140.0 14	4780.0 20	2770.0 18	1920.0 17	1400.0 14	1120.0 12	928.0 15	707.0 16	375.0 19
1950	12000.0 11	9600.0 11	7270.0 8	4760.0 8	3200.0 7	1880.0 8	1770.0 6	1650.0 6	1210.0 7	799.0 5
1951	10000.0 17	9320.0 13	5770.0 11	3420.0 14	1840.0 20	976.0 22	713.0 24	721.0 22	514.0 22	278.0 23
1952	7480.0 23	6680.0 20	4580.0 21	2700.0 21	1470.0 24	875.0 23	644.0 25	511.0 25	345.0 29	196.0 29
1953	7050.0 24	6600.0 22	4890.0 18	2670.0 22	2190.0 14	1250.0 17	1010.0 18	991.0 12	760.0 13	388.0 16
1954	10500.0 15	9120.0 15	5490.0 16	4660.0 9	2700.0 11	1470.0 13	1000.0 19	762.0 21	553.0 21	302.0 22
1955	5860.0 28	4380.0 28	2340.0 28	1220.0 29	704.0 29	480.0 29	437.0 29	402.0 29	309.0 30	206.0 27
1956	2300.0 32	1260.0 32	634.0 32	472.0 32	251.0 32	158.0 32	111.0 32	129.0 32	89.1 32	54.4 32
1957	20100.0 4	17800.0 4	11900.0 3	8530.0 1	5220.0 2	4840.0 2	3680.0 2	2870.0 2	2220.0 2	1190.0 2
1958	7550.0 20	6240.0 23	4150.0 23	2740.0 20	1850.0 18	1290.0 15	1040.0 14	942.0 14	833.0 11	507.0 11
1959	4210.0 30	3600.0 29	1780.0 31	941.0 31	661.0 30	463.0 30	444.0 28	414.0 28	348.0 28	187.0 30
1960	12900.0 8	9610.0 10	5690.0 12	2810.0 17	2000.0 16	1200.0 19	912.0 20	815.0 18	792.0 12	525.0 10
1961	4310.0 29	3590.0 30	2290.0 29	1340.0 28	812.0 28	514.0 27	416.0 30	447.0 27	379.0 25	275.0 24
1962	6880.0 25	6220.0 24	3580.0 25	1910.0 25	1530.0 23	851.0 24	745.0 22	594.0 23	475.0 23	368.0 20
1963	6360.0 27	5110.0 27	2960.0 27	1640.0 27	1120.0 26	752.0 25	619.0 26	490.0 26	413.0 24	266.0 25
1964	4050.0 31	2760.0 31	1840.0 30	1160.0 30	585.0 31	396.0 31	384.0 31	331.0 31	295.0 31	165.0 31
1965	6880.0 26	6200.0 25	3310.0 26	1700.0 26	938.0 27	508.0 28	455.0 27	398.0 30	355.0 27	225.0 26
1966	7510.0 21	5970.0 26	3720.0 24	2580.0 23	1360.0 25	711.0 26	718.0 23	555.0 24	371.0 26	196.0 28
1967	9900.0 18	7960.0 19	4780.0 19	3190.0 15	2030.0 15	1250.0 18	1110.0 13	843.0 16	738.0 14	376.0 18
1968	12700.0 9	11400.0 7	7840.0 6	4480.0 10	3020.0 8	2150.0 7	2070.0 4	1690.0 4	1420.0 4	812.0 4
1969	9570.0 19	8910.0 16	5670.0 14	4850.0 6	3750.0 3	2310.0 4	1930.0 5	1660.0 5	1260.0 5	672.0 8
1970	12000.0 12	9410.0 12	5690.0 13	3140.0 16	1670.0 22	997.0 21	872.0 21	792.0 19	637.0 18	496.0 12
1971	16000.0 5	12600.0 6	7350.0 7	4140.0 11	2800.0 10	1480.0 12	1020.0 17	788.0 20	568.0 20	398.0 15
1972	10000.0 16	8140.0 18	5630.0 15	3840.0 13	2240.0 12	1270.0 16	1030.0 15	824.0 17	573.0 19	347.0 21
1973	12300.0 10	9620.0 9	6480.0 9	5280.0 5	3470.0 4	3150.0 3	2530.0 3	2360.0 3	1840.0 3	1190.0 3
1974	15500.0 6	13000.0 5	8470.0 5	5430.0 4	3260.0 5	2200.0 5	1690.0 7	1310.0 7	979.0 8	740.0 7

## MONTHLY DURATION TABLE

CLEAR BOGGY CREEK NEAR CANEY, OKLAHOMA

PERIOD 1942-1974

CLASS LIMIT	TOTAL PERCENT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
0.00	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0.10	98.4	100.0	100.0	100.0	100.0	100.0	100.0	97.8	96.0	94.1	96.9	98.5	98.2
0.14	98.3	100.0	100.0	100.0	100.0	100.0	100.0	97.3	95.4	93.9	96.9	98.3	98.1
0.21	98.2	100.0	100.0	100.0	100.0	100.0	100.0	97.1	95.0	93.9	96.9	98.2	98.1
0.31	98.2	100.0	100.0	100.0	100.0	100.0	99.9	96.9	94.8	93.9	96.9	98.1	98.1
0.45	98.1	100.0	100.0	100.0	100.0	100.0	99.8	96.9	94.5	93.8	96.6	98.1	98.1
0.67	98.0	100.0	100.0	100.0	100.0	100.0	99.6	96.6	94.1	93.3	96.0	98.0	98.1
0.98	97.8	100.0	100.0	100.0	100.0	100.0	99.4	96.1	93.9	92.5	95.7	97.4	98.1
1.40	97.4	99.9	100.0	100.0	100.0	100.0	99.3	95.1	93.6	90.5	94.8	97.6	98.1
2.10	96.9	99.4	100.0	100.0	100.0	100.0	99.1	94.4	92.2	89.4	93.2	97.7	98.1
3.10	96.4	98.9	100.0	100.0	100.0	100.0	99.0	93.2	90.6	87.8	92.2	97.6	98.1
4.50	95.6	98.6	100.0	99.4	99.7	100.0	98.8	91.6	89.2	86.7	89.9	95.0	98.1
6.60	93.7	97.2	99.0	97.6	99.2	99.9	98.3	89.9	85.4	82.7	87.6	90.6	97.1
9.70	89.6	91.1	97.5	97.4	98.0	99.6	97.4	84.7	74.6	76.9	83.2	85.8	91.8
14.00	84.5	84.4	94.1	96.8	97.5	99.3	95.4	78.7	64.1	68.9	74.2	78.0	83.0
21.00	76.5	78.4	87.3	94.2	95.7	98.9	91.6	68.5	47.2	54.1	59.1	66.3	75.3
31.00	69.5	73.8	85.1	90.2	93.0	97.4	83.5	54.3	31.4	41.1	52.0	63.1	70.3
45.00	63.3	70.4	81.6	85.7	89.6	95.0	75.6	41.4	22.1	33.5	47.5	55.3	64.1
66.00	54.2	62.2	70.9	76.3	81.8	86.6	64.8	30.7	16.2	28.4	39.8	42.0	51.6
96.00	44.7	51.5	55.9	64.5	71.4	77.5	52.6	23.7	12.4	23.6	33.0	35.0	38.3
140.00	35.5	36.0	44.8	52.7	58.9	65.8	42.9	17.9	9.1	18.3	24.0	25.9	30.4
210.00	27.6	22.2	33.5	42.2	47.7	54.3	32.3	13.2	7.0	14.9	20.2	21.0	23.6
300.00	22.0	16.4	24.7	33.3	38.9	45.0	25.6	10.7	5.2	12.5	16.5	17.2	18.4
440.00	17.1	12.0	18.8	25.7	31.0	36.3	20.8	7.6	3.8	10.2	13.7	10.9	14.3
650.00	13.4	9.1	13.4	19.7	24.4	30.1	16.7	6.1	2.8	7.9	11.9	8.4	10.1
950.00	10.6	6.0	10.0	15.8	20.5	24.5	13.3	4.3	2.3	6.5	9.1	7.2	7.9
1400.00	8.3	4.0	7.2	12.9	17.5	19.7	10.4	3.2	1.9	5.3	6.6	5.8	5.4
2000.00	6.6	2.9	5.8	9.7	13.3	16.1	8.8	2.8	1.3	4.2	5.0	4.9	3.9
3000.00	4.4	1.7	3.7	6.5	9.4	11.6	6.4	1.8	0.8	2.5	3.2	3.4	2.4
4400.00	2.6	0.5	2.2	3.8	5.7	7.4	3.9	0.8	0.1	1.8	1.9	2.0	0.9
6500.00	1.3	0.0	1.0	1.7	3.2	3.6	2.3	0.3	0.0	0.6	1.0	0.9	0.7
9500.00	0.5	0.0	0.4	0.6	0.8	1.4	1.3	0.0	0.0	0.6	0.4	0.4	0.5
14000.00	0.2	0.0	0.1	0.2	0.3	0.3	0.3	0.0	0.0	0.2	0.1	0.1	0.3
20000.00	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.2	0.0	0.0	0.2
30000.00	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0

## STATISTICS OF ANNUAL DISCHARGE FOR WATER YEARS, 1943-74

Units of annual Discharge	Mean	Standard Deviation	Coefficient of Variation	Skew Coefficient	First Order Serial Correlation Coefficient
CFS	395	347	0.70	1.72	0.10
LOGS of CFS	2.601	0.297		-0.372	0.164

LOCATION.--Lat 33°52'32", long 95°30'08", in NW 1/4 sec.11, T.8 S., R.17 E., Choctaw County, Okla., near right bank on downstream side of pier of bridge on U.S. Highway 271 at Arthur City, 10.6 mi (17.1 km) downstream from Muddy Boggy Cree River, 26.0 mi (41.8 km) upstream from Kaimichi River, and at mile 633.1 (1,018.7 km).

PERIOD OF RECORD.--October 1905 to December 1911, July 1936 to September 1974. Statistical summaries for this station are divided into unregulated and regulated periods.

REMARKS.--Flow regulated since October 1943 by Lake Texoma, 92.8 mi (149.3 km) above station.

RED RIVER AT ARTHUR CITY, TEXAS

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34		
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS		
1944	5	5	8	25	20	20	32	58	30	22	28	20	13	8	8	8	6	7	11	3	10	4	4	4	1										1047508.0		
1945	7	10	15	4	9	14	8	14	11	7	4	9	10	13	15	15	7	15	12	10	5	9	17	13	26	29	22	19	12	4						6022482.0	
1946							6	5	5	5	5	8	17	34	24	21	33	43	31	32	9	14	16	13	15	3	12	9	5							4001629.0	
1947											1	4	15	13	25	44	51	33	62	21	12	6	18	17	9	4	8	11	10	14	3	1				4824300.0	
1948							5	5	1	3	6	13	17	34	47	73	35	35	16	12	6	13	10	17	6	5	7	2	1							2436024.0	
1949									2	2	15	11	24	44	68	48	30	18	11	6	11	11	13	14	13	11	4	2	3							2521683.0	
1950											1	10	35	29	40	33	20	25	17	20	10	16	14	26	14	24	19	6	1							4751550.0	
1951											7	13	33	42	64	80	29	12	9	7	2	4	4	7	8	20	15	7	2							3488130.0	
1952							1	6	12	30	42	54	57	62	51	16	13	12	6	3	5	3	3	1	1	1	1	1			1					1530710.0	
1953							1	7	19	22	30	55	48	54	41	20	16	5	5	5	5	12	8	4	4	1										1691431.0	
1954							1	1	14	7	23	25	38	52	57	35	30	17	4	6	20	5	6	12	2	3	3	4								2213610.0	
1955							7	5	15	18	29	32	44	52	39	30	26	11	20	17	9	11	10	3	4	2	1									1841466.0	
1956					2	1	7	5	12	15	6	14	26	46	34	19	19	60	34	16	14	9	1	2	1	3	2	1	5							1543119.0	
1957	34	16	12	4	6	3	2	5	5	4	4	12	18	27	31	16	19	17	8	5	10	3	3	1	8	6	6	6	4	6	10	33	11	9	4	2	6634976.0
1958							1	2	5	4	1	13	15	23	34	40	43	47	38	22	22	15	6	6	10	6	4	6			1			1		3503895.0	
1959							4	6	20	29	17	35	27	53	42	30	27	24	14	15	9	6	5			2	1	1								1287618.0	
1960							2	3	4	2	7	12	17	19	33	32	31	30	29	32	28	19	18	16	17	6	1	1	1								5038403.0
1961									6	1	6	13	43	34	49	49	44	28	17	17	13	14		9	10	8	4									2817243.0	
1962									1	6	12	14	22	31	38	46	53	37	17	21	15	9	15	3	5	3	2									2751160.0	
1963							2	5	7	11	11	37	36	44	43	50	42	15	15	12	4	5		7	1	2	1									1755844.0	
1964				1	3	3	11	17	24	27	30	16	26	37	49	48	15	14	7	6	9		5	1	1											1008071.0	
1965							5	4	12	19	10	26	25	40	50	39	47	24	15	8	12	5	5	3	3	3	1	1	2								1503551.0
1966								2	2	8	10	13	25	27	45	60	37	58	40	11	2	2	4	2	5	2	4	2	4			2				1839478.0	
1967							1	5	7	7	8	24	18	18	26	32	41	31	61	21	15	10	12	5	6	1	3	3	2	1	1					1733569.0	
1968									6	11	10	11	19	21	29	30	34	33	23	30	19	8	14	11	12	14	18	8			1	3	1			3594161.0	
1969									1	7	5	13	15	27	36	42	31	23	20	28	22	30	9	14	13	6	4	17	1	1						4062850.0	
1970							1	2	6	2	8	14	26	32	54	53	53	22	21	18	12	10	17	8	1	2	1									2250701.0	
1971					2	5	5	5	15	17	12	32	30	35	45	36	33	34	17	17	6	6	4	4	4	1									1407557.0		
1972				2	4	1	10	3	6	8	13	15	19	24	36	29	33	57	25	35	15	7	4	5	1	5	2	3	3			1			1964419.0		
1973							1	3	1		5	2	10	4	9	17	20	20	49	32	23	19	23	19	23	14	22	15			8	5			5009816.0		
1974									5	2	4	5	20	20	35	32	26	36	28	20	16	30	27	10	12	14	9	6	7	1						3677726.0	

CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT
0	0.00	0	11323	100.0	9	710.00	258	10851	95.8	18	4700.00	920	4454	39.3	27	31000	190	592	5.2
1	134.00	34	11323	100.0	10	860.00	314	10613	93.7	19	5800.00	659	5534	31.2	28	38000	157	402	3.5
2	170.00	28	11289	99.7	11	1100.00	282	10299	91.0	20	7100.00	484	2875	25.4	29	46000	123	245	2.1
3	200.00	30	11261	99.5	12	1300.00	485	10017	88.5	21	8700.00	419	2391	21.1	30	57000	79	122	1.0
4	250.00	35	11231	99.2	13	1600.00	696	9532	84.2	22	11000.00	303	1972	17.4	31	71000	24	43	.3
5	310.00	43	11195	98.9	14	2000.00	970	8836	78.0	23	13000.00	309	1669	14.7	32	67000	12	19	.1
6	380.00	69	11152	98.5	15	2500.00	1137	7866	69.5	24	16000.00	285	1360	12.0	33	110000	5	7	.0
7	470.00	92	11083	97.9	16	3100.00	1139	6729	59.4	25	20000.00	270	1075	9.5	34	130000	2	2	.0
8	580.00	140	10991	97.1	17	3800.00	1136	5590	49.4	26	25000.00	213	805	7.1					

## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## RED RIVER AT ARTHUR CITY, TEXAS

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1945	170.00 2	172.00 2	179.00 2	211.00 2	269.00 2	519.00 2	485.00 2	588.00 2	812.00 1	6310.00 13
1946	630.00 16	633.00 11	653.00 10	730.00 7	1350.00 8	2520.00 16	4600.00 28	7030.00 28	10700.00 29	18600.00 29
1947	1420.00 29	1870.00 30	2280.00 30	2330.00 28	2440.00 23	3230.00 26	3640.00 24	3980.00 23	7040.00 27	9760.00 25
1948	554.00 10	567.00 8	625.00 7	1250.00 15	1700.00 12	2080.00 9	2240.00 9	2470.00 11	3290.00 13	10000.00 24
1949	828.00 22	1060.00 22	1130.00 17	1630.00 20	1810.00 17	2060.00 8	2100.00 8	2130.00 8	2440.00 8	6830.00 18
1950	1200.00 28	1490.00 28	2060.00 29	2060.00 24	2460.00 24	2530.00 17	2810.00 16	3200.00 17	3350.00 16	7530.00 19
1951	1530.00 30	1800.00 29	1940.00 27	2360.00 29	3050.00 28	3190.00 25	3370.00 21	3590.00 20	5570.00 23	12400.00 27
1952	1060.00 26	1290.00 25	1540.00 23	1670.00 21	2010.00 20	2110.00 11	2340.00 10	2350.00 9	2540.00 9	8180.00 22
1953	695.00 17	814.00 16	983.00 14	1200.00 13	1490.00 10	1640.00 6	1640.00 6	1700.00 4	1850.00 4	3920.00 4
1954	700.00 19	1020.00 21	1260.00 19	1440.00 17	1760.00 15	2100.00 10	2430.00 13	2580.00 13	3030.00 11	5040.00 8
1955	580.00 13	587.00 10	629.00 8	983.00 9	1510.00 11	2440.00 15	2420.00 11	2900.00 14	3330.00 15	6660.00 16
1956	720.00 20	829.00 18	1080.00 15	1340.00 16	2170.00 21	3360.00 27	4340.00 26	4510.00 25	5840.00 25	6170.00 12
1957	134.00 1	134.00 1	134.00 1	159.00 1	170.00 1	210.00 1	379.00 1	577.00 1	944.00 2	1960.00 1
1958	604.00 14	805.00 14	1520.00 21	1800.00 22	2250.00 22	2830.00 24	7260.00 30	7360.00 29	9680.00 28	22200.00 30
1959	546.00 8	579.00 9	694.00 11	753.00 8	1040.00 5	1640.00 7	1660.00 7	1820.00 6	1880.00 5	5150.00 9
1960	585.00 9	827.00 17	1080.00 16	1140.00 12	1730.00 13	2690.00 20	3250.00 20	4770.00 26	4730.00 21	8120.00 21
1961	556.00 11	859.00 20	1840.00 25	2260.00 26	2620.00 26	2700.00 22	3400.00 22	3740.00 22	5010.00 22	6550.00 14
1962	978.00 24	1450.00 27	1540.00 22	2160.00 25	2780.00 27	3500.00 28	3570.00 23	3690.00 21	4420.00 19	5780.00 10
1963	724.00 21	781.00 13	883.00 12	1060.00 10	1800.00 16	2740.00 23	3660.00 25	5200.00 27	6370.00 26	7570.00 20
1964	240.00 4	303.00 4	415.00 5	503.00 4	634.00 3	812.00 3	883.00 3	992.00 3	1180.00 3	2350.00 2
1965	485.00 7	525.00 7	642.00 9	1100.00 11	1420.00 9	2400.00 14	2590.00 15	3040.00 15	3290.00 14	4070.00 5
1966	570.00 12	811.00 15	1170.00 18	1600.00 19	1950.00 19	2130.00 12	2420.00 12	2450.00 10	2880.00 10	3710.00 3
1967	358.00 6	375.00 6	435.00 6	624.00 5	1080.00 6	1490.00 5	1590.00 5	1820.00 7	2280.00 7	4550.00 6
1968	610.00 15	773.00 12	1270.00 20	1460.00 18	1740.00 14	2670.00 18	3130.00 19	3190.00 16	4030.00 17	6820.00 17
1969	980.00 25	1280.00 24	2030.00 28	2820.00 30	3410.00 30	4020.00 30	4390.00 27	4440.00 24	5610.00 24	11700.00 26
1970	960.00 23	1150.00 23	1920.00 26	2330.00 27	2460.00 25	2690.00 21	3000.00 17	3550.00 19	4120.00 18	9520.00 23
1971	696.00 18	847.00 19	941.00 13	1250.00 14	1820.00 18	2680.00 19	3070.00 18	3530.00 18	4480.00 20	4980.00 7
1972	320.00 5	352.00 5	401.00 4	631.00 6	1150.00 7	2330.00 13	2470.00 14	2510.00 12	3180.00 12	5780.00 11
1973	236.00 3	245.00 3	308.00 3	359.00 3	897.00 4	1170.00 4	1480.00 4	1750.00 5	2230.00 6	6580.00 15
1974	1150.00 27	1420.00 26	1790.00 24	2050.00 23	3130.00 29	3760.00 29	4740.00 29	8090.00 30	11700.00 30	14100.00 28

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## RED RIVER AT ARTHUR CITY, TEXAS

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1944	32300.0 28	25800.0 29	19400.0 28	13100.0 28	9270.0 29	7050.0 28	6460.0 27	6700.0 27	5060.0 27	2860.0 30
1945	86800.0 5	77700.0 4	64400.0 2	54300.0 3	44500.0 3	41300.0 2	37300.0 2	35000.0 2	30300.0 2	16500.0 2
1946	67500.0 12	61400.0 10	57700.0 5	49300.0 5	36600.0 7	20500.0 10	14400.0 9	13900.0 9	13900.0 9	11000.0 7
1947	96500.0 4	76900.0 5	64100.0 3	61800.0 2	47800.0 2	32000.0 4	26700.0 4	21600.0 6	18200.0 5	13200.0 4
1948	64700.0 14	48200.0 17	41700.0 17	27900.0 17	20400.0 18	14800.0 16	13300.0 14	11100.0 15	10100.0 14	6660.0 15
1949	53100.0 18	49100.0 16	33900.0 20	24500.0 20	23500.0 15	18300.0 12	14100.0 13	12800.0 11	11400.0 13	6910.0 14
1950	66700.0 13	48100.0 18	42400.0 15	37900.0 14	35500.0 9	28700.0 6	24200.0 7	23000.0 4	19200.0 4	13000.0 5
1951	70100.0 11	63800.0 8	56400.0 7	49200.0 6	42200.0 5	34300.0 3	24400.0 5	19200.0 8	14800.0 8	9560.0 10
1952	85300.0 7	59800.0 11	38200.0 18	25900.0 18	17300.0 20	11300.0 21	9020.0 24	7620.0 24	6000.0 26	4180.0 26
1953	50800.0 19	40500.0 20	29000.0 23	20500.0 24	18300.0 19	12300.0 19	9740.0 21	8920.0 21	7310.0 20	4630.0 24
1954	55300.0 17	52200.0 14	47800.0 14	36200.0 15	28300.0 11	20100.0 11	15100.0 11	12400.0 14	9300.0 15	6060.0 18
1955	41400.0 23	36300.0 22	25900.0 25	16600.0 26	11800.0 26	9630.0 26	7950.0 26	7290.0 26	6280.0 25	5050.0 20
1956	39600.0 25	39300.0 21	37000.0 19	25900.0 19	15900.0 21	10500.0 24	8500.0 25	7390.0 25	6490.0 23	4220.0 25
1957	134000.0 1	132000.0 1	121000.0 1	102000.0 1	87300.0 1	74100.0 1	60800.0 1	48500.0 1	34300.0 1	18200.0 1
1958	110000.0 2	82900.0 3	57100.0 6	45000.0 8	28700.0 10	17600.0 13	14800.0 11	12700.0 12	12000.0 10	9050.0 11
1959	31800.0 29	26900.0 28	19400.0 29	15200.0 27	10200.0 27	7690.0 27	6440.0 28	5550.0 28	5030.0 28	3530.0 29
1960	55600.0 16	51300.0 15	50100.0 13	38100.0 13	21600.0 17	15300.0 14	13000.0 15	12700.0 13	11500.0 11	8300.0 12
1961	34900.0 27	31000.0 26	30700.0 21	24000.0 21	14200.0 22	11900.0 20	10600.0 19	9320.0 19	9080.0 16	6620.0 16
1962	50800.0 20	48100.0 19	41700.0 16	33600.0 16	24500.0 13	14700.0 17	11800.0 17	10400.0 17	8850.0 17	7540.0 13
1963	41400.0 24	35800.0 23	29100.0 22	20700.0 22	14200.0 23	10100.0 25	9100.0 23	8200.0 22	6340.0 24	4810.0 22
1964	26800.0 31	21100.0 31	14800.0 31	10400.0 31	6070.0 31	4620.0 31	4480.0 31	4100.0 31	4070.0 31	2750.0 31
1965	39400.0 26	29300.0 27	19400.0 30	10800.0 30	7960.0 30	5860.0 30	5380.0 30	5410.0 30	4800.0 29	4120.0 27
1966	86600.0 6	70900.0 6	55300.0 9	41000.0 10	24300.0 14	14100.0 18	10600.0 18	9300.0 20	7310.0 21	5040.0 21
1967	46100.0 21	35100.0 24	25500.0 26	20500.0 23	13700.0 24	11200.0 22	9590.0 22	8070.0 23	7210.0 22	4750.0 23
1968	77800.0 8	67300.0 7	52000.0 10	43500.0 9	36000.0 8	25400.0 8	23400.0 8	20600.0 7	15800.0 7	9820.0 9
1969	74000.0 9	58800.0 12	51900.0 11	50200.0 4	43500.0 4	28300.0 7	24200.0 6	23000.0 5	17900.0 6	11100.0 6
1970	41800.0 22	34100.0 25	28200.0 24	20400.0 25	13400.0 25	11000.0 23	10400.0 20	9440.0 18	8100.0 19	6170.0 17
1971	26900.0 30	24900.0 30	21200.0 27	12900.0 29	10100.0 28	6870.0 29	6360.0 29	5470.0 29	4550.0 30	3660.0 28
1972	108000.0 3	88700.0 2	59500.0 4	39100.0 12	23300.0 16	15100.0 15	12300.0 16	10800.0 16	8390.0 18	5370.0 19
1973	70800.0 10	63400.0 9	56200.0 8	47400.0 7	38700.0 6	30700.0 5	27100.0 3	26300.0 3	20600.0 3	13700.0 3
1974	59600.0 15	56300.0 13	51800.0 12	39300.0 11	26500.0 12	21000.0 9	18600.0 9	15100.0 10	11500.0 12	10100.0 8



## RED RIVER BASIN

377

07335700 KIAMICHI RIVER NEAR BIG CEDAR, OKLA.  
(Hydrologic bench mark station)

LOCATION.--Lat 34°38'18", long 94°36'45", in SW 1/4 SE 1/4 sec.18, T.2 N., R.26 E., LeFlore County, in Ouachita National Forest, on downstream side of right bank pier of bridge on State Highway 63, 0.2 mi (0.3 km) upstream from Rattlesnake Creek, 1.1 mi (1.8 km) upstream from Big Branch, 2.1 mi (3.4 km) east of Big Cedar, and at mile 157.6 (253.6 km).

DRAINAGE AREA.--40.1 mi<sup>2</sup> (103.9 km<sup>2</sup>).

PERIOD OF RECORD.--October 1965 to September 1974.

AVERAGE DISCHARGE.--9 years (1966-74), 81.1 ft<sup>3</sup>/s (2.30 m<sup>3</sup>/s).

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

KIAMICHI RIVER NEAR BIG CEDAR, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34		
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS		
1966	6					5	1	5	5	11	24	17	19	37	36	14	22	17	21	25	35	17	14	10	8	2	3	8	2					1		19188.3	
1967	49					5	9	11	7	13	20	25	26	14	32	14	15	16	19	12	12	20	11	11	10	4	4	1	4	1						14900.3	
1968	3	1		1		6	5	6	25	6	8	11	17	11	6	13	5	13	17	37	47	29	23	16	16	17	7	7	5	1	1	2	2			43341.5	
1969						3	4	1	7	19	12	10	21	24	7	3	2	13	20	34	48	38	29	23	17	9	6	6	3	3	3	5				33914.3	
1970	33	2	3	1	4	3	5	10	8	6	4	9	8	13	19	8	15	34	27	27	33	26	24	15	6	7	2	3	1							22053.2	
1971									1	2	2	19	12	7	11	11	10	3	29	34	46	36	44	42	22	16	9	5	1			1	1	1			26198.0
1972	64	4	1	2	1	4	2	5	1	2	8	3	2	9	7	15	8	29	27	35	48	25	16	6	10	6	2	2						2		22328.6	
1973	21									6	7	6	11	14	12	8	3	15	21	34	23	31	34	34	32	16	11	9	7	6	2	2				52138.6	
1974	1	2		2	5	12	7	4	5	8	4	6	3	4	2	8	8	16	24	40	48	41	39	21	19	11	6	8	4			1	1			32526.2	

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	197	3267	100.0	9	0.60	73	2867	87.8	18	16.0	217	1888	57.4	27	470	44	104	3.1					
1	0.02	9	3090	94.0	10	0.80	116	2814	85.6	19	24.0	290	1671	50.8	28	680	28	60	1.8					
2	0.04	4	5081	93.7	11	1.20	94	2698	82.1	20	35.0	324	1381	42.0	29	990	13	32	.9					
3	0.06	6	3077	93.6	12	1.70	115	2604	79.2	21	50.0	278	1057	32.2	30	1400	6	19	.5					
4	0.08	10	3071	93.4	13	2.50	132	2469	75.7	22	75.0	234	779	23.7	31	2100	6	11	.3					
5	0.10	38	3061	93.1	14	3.70	128	2357	71.7	23	110.0	167	545	16.6	32	3000	3	5	.1					
6	0.20	33	3023	92.0	15	5.30	104	2229	67.8	24	150.0	143	378	11.5	33	4400	2	2	.0					
7	0.50	45	2940	91.0	16	7.80	74	2125	64.6	25	220.0	80	235	7.1	34									
8	0.40	60	2947	89.7	17	11.00	163	2051	62.4	26	320.0	51	155	4.7										

## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

KIAMICHI RIVER NEAR BIG CEDAR, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1967	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.03 2	0.17 2	0.43 2	0.79 1	22.60 1
1968	0.42 7	0.43 6	0.49 6	0.55 6	0.92 6	1.02 6	2.10 5	22.10 7	49.00 7	113.00 8
1969	0.00 2	0.02 4	0.11 4	0.20 4	0.30 4	0.60 4	1.41 4	2.78 4	11.30 3	103.00 6
1970	0.12 5	0.20 5	0.31 5	0.40 5	0.54 5	0.73 5	4.85 6	9.87 5	26.00 5	72.50 3
1971	0.00 3	0.00 2	0.00 2	0.00 2	0.01 3	0.14 3	0.91 3	2.19 3	33.60 6	69.60 2
1972	0.33 6	0.44 7	0.77 7	0.95 7	1.60 7	4.56 7	19.20 8	15.60 6	24.80 4	71.80 4
1973	0.00 4	0.00 3	0.00 3	0.00 3	0.00 2	0.01 1	0.01 1	0.03 1	6.20 2	86.50 5
1974	0.69 8	0.73 8	0.85 8	1.07 8	1.63 8	6.18 8	13.20 7	34.80 8	61.40 8	113.00 7

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

KIAMICHI RIVER NEAR BIG CEDAR, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL										
1966	3350.0	3	1340.0	5	676.0	5	353.0	6	213.0	7	142.0	9	136.0	7	117.0	7	96.1	8	52.6	8
1967	1170.0	8	543.0	8	299.0	9	287.0	9	226.0	8	175.0	5	145.0	6	117.0	6	80.4	9	40.8	9
1968	3670.0	2	1440.0	3	646.0	2	626.0	2	481.0	1	359.0	2	274.0	2	251.0	2	201.0	2	118.0	2
1969	2490.0	7	1340.0	6	676.0	6	355.0	5	256.0	4	174.0	4	202.0	3	169.0	3	147.0	3	92.9	3
1970	1070.0	9	541.0	9	361.0	8	300.0	8	169.0	9	173.0	6	146.0	5	126.0	6	110.0	6	60.4	7
1971	2530.0	5	1430.0	4	793.0	3	414.0	4	255.0	5	150.0	8	128.0	9	113.0	9	106.0	7	71.8	5
1972	4980.0	1	3260.0	1	1600.0	1	663.0	1	463.0	2	256.0	3	168.0	4	150.0	4	111.0	5	61.0	6
1973	2700.0	4	1490.0	2	784.0	4	574.0	3	435.0	3	351.0	1	293.0	1	262.0	1	217.0	1	143.0	1
1974	2400.0	6	1483.0	7	556.0	7	320.0	7	192.0	8	169.0	7	132.0	8	128.0	5	118.0	4	69.1	4

## RED RIVER BASIN

07336000 TENMILE CREEK NEAR MILLER, OKLA.

LOCATION.--Lat 34°17'55", long 95°44'40", in NW 1/4 sec.16, T.3 S., R.15 E., near center of span on downstream side of pier of bridge on county road, 1.2 mi (1.9 km) south of Miller, 4.7 mi (7.6 km) upstream from Rock Creek, and at mile 11.6 (18.7 km).

DRAINAGE AREA.--68 mi<sup>2</sup> (176 km<sup>2</sup>).

PERIOD OF RECORD.--October 1955 to September 1970.

AVERAGE DISCHARGE.--15 years (1956-70), 76.4 ft<sup>3</sup>/s (2.16 m<sup>3</sup>/s).

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

TENMILE CREEK NEAR MILLER, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34				
YEAR	NUMBER OF DAYS IN CLASS																																		CFS-DAYS				
1956	102												17	25	30	20	15	18	24	13	16	18	6	10	11	12	6	5	4	4	2	2	2	4		7279.4			
1957	134												3	3	1	2	4	6	6	5	9	14	7	20	21	13	13	19	19	15	11	6	1	7	5	11	7	3	65268.6
1958	39												4	1	3	3	12	11	26	12	17	15	12	30	38	30	31	22	16	12	7	8	5	4	1	3	1	1	32651.7
1959	68												3	6	6	12	53	40	26	17	16	22	20	18	17	10	10	12	7	5	7	2	4	3	1		14041.5		
1960	37												6	6	5	3	9	5	16	22	21	29	25	27	29	22	17	24	16	14	9	8	3	3	4	2	4	31761.5	
1961	7												6	1	8	10	18	11	13	17	22	36	23	44	34	21	20	19	14	9	8	5	5	6	4	3	1	27922.3	
1962	45												22	6	6	12	11	5	9	12	5	7	22	36	29	24	23	21	18	18	9	13	3	2	4	1	1	1	28206.0
1963	63												11	8	5	9	16	7	14	16	26	32	21	45	20	20	14	8	9	6	4	4	1	4	6	1	1	22389.2	
1964	210												10	4	7	3	10	7	4	5	11	13	7	24	11	12	5	6	4	3	3	5	1	1			10529.4		
1965	75												7	3	7	3	14	12	13	11	26	47	16	28	23	16	13	14	15	8	4		2	2	3	1		14955.4	
1966	90												11	8	12	17	15	17	20	22	32	25	22	20	12	8	5	4	4	3	3	4	3	2	2	1	3	20971.3	
1967	65		5		2								11	7	10	14	19	18	23	27	27	25	13	21	14	10	15	8	6	5	4	1	2	3	8	2	2	24508.6	
1968				1	2	4		4		4	12	5	12	8	11	18	27	13	6	27	33	32	32	27	24	13	10	12	5	7	4	6	2	3			49983.4		
1969	35	1	1	1	5	4	10	2	6	4	4	8	10	6	9	9	22	50	30	34	31	21	21	20	6	9	6	2	2	7	4	1				44304.6			
1970	61						5	1	2	4	13	17	29	14	12	24	16	24	24	24	22	12	12	6	10	3	4	3	6	1			1				23630.8		

CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT
0	0.00	1031	5479	100.0	9	0.50	121	4076	74.4	18	17.0	346	1850	33.8	27	57.0	54	165	3.3
1	0.01	1	4448	81.2	10	0.70	199	3955	72.2	19	25.0	288	1504	27.5	28	85.0	52	131	2.3
2	0.02	8	4447	81.2	11	1.10	190	3756	68.6	20	37.0	257	1216	22.2	29	130.0	38	79	1.4
3	0.03	2	4439	81.0	12	1.60	244	3566	65.1	21	54.0	222	959	17.5	30	190.0	26	41	.7
4	0.04	15	4437	81.0	13	2.40	219	3322	60.6	22	81.0	189	737	13.5	31	270.0	14	15	.2
5	0.06	13	4424	80.7	14	3.50	280	3103	56.6	23	120.0	141	548	10.0	32	410.0	1	1	.0
6	0.10	130	4411	80.5	15	5.20	329	2823	51.5	24	180.0	96	407	7.4	33				
7	0.20	85	4281	78.1	16	7.70	242	2494	45.5	25	260.0	80	311	5.7	34				
8	0.30	120	4196	76.6	17	11.00	402	2252	41.1	26	390.0	46	231	4.2					

## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## TENMILE CREEK NEAR MILLER, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1957	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.00 2	0.39 2	36.90 3
1958	0.00 2	0.00 2	0.00 2	0.00 2	0.00 2	1.39 9	1.95 8	68.80 14	100.00 14	210.00 14
1959	0.00 3	0.00 3	0.00 3	0.00 3	0.00 3	0.00 2	0.37 3	0.98 3	1.09 3	38.10 5
1960	0.00 4	0.00 4	0.00 4	0.00 4	1.15 12	7.22 12	43.10 14	66.90 13	65.10 13	90.30 11
1961	0.00 5	0.00 5	0.00 5	0.00 5	0.92 11	4.99 11	22.90 12	20.50 10	28.90 8	74.20 8
1962	0.00 6	0.00 6	0.01 13	0.14 13	2.84 13	17.80 14	27.10 13	31.10 11	54.30 12	87.00 10
1963	0.00 7	0.00 7	0.00 6	0.00 6	0.00 4	0.28 7	2.00 9	5.96 8	40.40 10	68.10 7
1964	0.00 8	0.00 8	0.00 7	0.00 7	0.00 5	0.00 3	0.00 2	0.00 1	0.02 1	24.20 1
1965	0.00 9	0.00 9	0.00 8	0.00 8	0.00 6	0.00 4	0.66 4	1.65 4	11.00 7	47.70 6
1966	0.00 10	0.00 10	0.00 9	0.00 9	0.00 7	0.31 8	1.32 6	3.69 6	5.43 5	36.20 2
1967	0.00 11	0.00 11	0.00 10	0.00 10	0.00 8	0.00 5	0.91 5	2.61 5	3.01 4	37.80 4
1968	0.00 12	0.00 12	0.00 11	0.00 11	0.28 10	3.99 10	20.20 11	39.90 12	49.20 11	137.00 12
1969	0.03 14	0.04 14	0.66 14	0.24 14	5.11 14	8.02 13	15.20 10	19.00 9	39.50 9	138.00 13
1970	0.00 13	0.00 13	0.00 12	0.00 12	0.00 9	0.10 6	1.48 7	5.27 7	9.21 6	75.20 9

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## TENMILE CREEK NEAR MILLER, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1956	702.0 15	665.0 15	370.0 15	179.0 15	120.0 15	71.0 15	58.5 15	56.8 15	38.5 15	19.9 15
1957	4070.0 2	2400.0 2	1870.0 1	1270.0 1	846.0 1	718.0 1	564.0 1	447.0 1	314.0 1	179.0 1
1958	4540.0 1	2560.0 1	1160.0 3	612.0 6	339.0 6	255.0 5	181.0 6	152.0 7	169.0 4	89.5 4
1959	2160.0 13	1200.0 12	572.0 13	394.0 10	209.0 13	128.0 12	98.9 12	86.0 12	73.0 12	38.5 13
1960	2260.0 12	1350.0 11	652.0 12	432.0 8	257.0 10	173.0 9	136.0 9	134.0 8	117.0 8	86.8 5
1961	2110.0 14	944.0 14	666.0 10	344.0 12	232.0 12	125.0 13	132.0 11	123.0 10	102.0 10	76.5 7
1962	2770.0 8	1640.0 6	779.0 7	412.0 9	275.0 7	159.0 10	135.0 10	121.0 11	131.0 5	77.3 6
1963	3550.0 4	1590.0 8	742.0 8	393.0 11	266.0 8	214.0 6	161.0 8	125.0 9	91.1 11	61.3 10
1964	2410.0 10	1360.0 10	636.0 11	306.0 13	245.0 11	134.0 11	95.8 13	72.5 14	48.1 14	28.8 14
1965	2320.0 11	1090.0 13	492.0 14	235.0 14	144.0 14	95.9 14	79.0 14	79.9 13	71.6 13	41.0 12
1966	3780.0 3	2160.0 3	1080.0 4	742.0 3	385.0 5	195.0 8	211.0 4	160.0 4	108.0 9	57.5 11
1967	2640.0 9	1630.0 7	862.0 5	630.0 5	443.0 4	269.0 4	196.0 5	153.0 6	131.0 6	67.1 8
1968	2940.0 7	2050.0 4	1200.0 2	827.0 2	548.0 2	433.0 2	351.0 2	321.0 2	244.0 2	137.0 2
1969	3020.0 5	1700.0 5	786.0 6	653.0 4	475.0 3	314.0 3	279.0 3	254.0 3	222.0 3	121.0 3
1970	2970.0 6	1360.0 9	682.0 9	465.0 7	260.0 9	205.0 7	168.0 7	155.0 5	120.0 7	64.7 9

## STATISTICS OF ANNUAL DISCHARGE FOR WATER YEARS, 1956-70

Units of annual Discharge	Mean	Standard Deviation	Coefficient of Variation	Skew Coefficient	First Order Serial Correlation Coefficient
CFS	76.4	42.6	0.56	1.06	-0.02
LOGS of CFS	1.818	0.254		-0.356	-0.048

## RED RIVER BASIN

07336500 KIAMICHI RIVER NEAR BELZONI, OKLA.

LOCATION.--Lat 34°12'02", long 95°29'03", in SE 1/4 sec.14, T.14 S., R.17 E., Pushmataha County, near left bank on downstream side of pier of bridge on State Highway 7, 1.8 mi (3.0 km) northwest of Belzoni, 6.5 mi (10.5 km) downstream from Cedar Creek, 10 mi (16.1 km) upstream from Possum Creek, and at mile 47.7 (76.7 km).

DRAINAGE AREA.--1,423 mi<sup>2</sup> (3,686 km<sup>2</sup>).

PERIOD OF RECORD.--October 1925 to September 1971.

AVERAGE DISCHARGE.--46 years (1926-71), 1,699 ft<sup>3</sup>/s (48.1 m<sup>3</sup>/s).

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

KIAMICHI RIVER NEAR BELZONI, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS	
1926												7	11	10	8	15	15	38	19	22	22	20	23	29	85	11	9	10	5	3	3					376384.6
1927												3	6	5	6	5	8	10	11	29	50	39	36	40	46	29	20	12	9	8	2	7	4			796773.1
1928												6	11	10	11	8	12	24	24	27	38	39	42	34	21	10	13	13	4	5		7	4	3		752608.3
1929																																				635483.1
1930	21				3	3	2		8	4	14	16	7	6	4	9	9	8	8	24	26	23	22	50	42	32	11	7	8	6	6	1				535138.0
1931	7																																			327720.0
1932	12																																			857953.0
1933																																				502432.0
1934	47																																			353022.0
1935																																				1106170.0
1936	67		1	1	2	2	5	3	8	2	2	2	7	12	13	8	29	33	54	29	27	19	15	7	5	3	1	2			2	3	2		277810.3	
1937		2	2	2	1	3	4	3	5	2	3	6	4	5	5	14	14	34	33	38	31	34	20	24	17	24	12	9	6	3					648180.7	
1938																																				871930.9
1939	23	22	22	16	5	7		4	3	1	7	9	5	5	19	15	20	9	17	30	28	17	26	16	14	6	2	6	6	2			3		368515.2	
1940	43	2		1	1	2	6	4	1																										259573.3	
1941																																				556544.1
1942																																				727755.0
1943	30	1	1	1	1	4	2	3	6	7	15	16	9	9	3	9	8	9	53	51	31	25	20	12	9	7	2	3	1	1	3	2			470878.5	
1944		6	1	3	2	2	1	1	3	5	2	9	11	13	22	19	18	11	17	17	20	17	31	39	24	27	16	13	10					667823.6		
1945																																				1534984.4
1946																																				716483.7
1947																																				842253.0
1948																																				503553.5
1949																																				848566.5
1950																																				1100497.0
1951																																				642755.0
1952	21	2	1	3	2	5	3	2	4	7	7	9	8	14	9	7	5	9	29	40	35	32	31	18	15	9	6	6	2	6					506319.1	
1953																																				721692.0
1954	56	2	3	4	2	2	3	2	3	10	18	24	14	6	4	5	18	31	24	25	18	17	13	14	8	11	3	5	6					303116.3		
1955																																				542836.7
1956	54	2	1	1	1	3	1	1	2	3	4	8	19	13	19	16	6	11	27	29	18	14	12	15	9	3	5	6	3					188232.8		
1957	36																																			1211817.5
1958																																				749562.0
1959																																				328699.0
1960																																				779641.0
1961																																				560951.0
1962																																				610860.6
1963																																				317009.0
1964	58	5	3	3	9	4	2	6	8	17	30	13	9	9	10	14	16	15	23	15	19	25	12	8	8	7	4	5	3	5	1			269834.0		
1965																																				411834.7
1966																																				367559.7
1967																																				425237.1
1968																																				1118418.0
1969																																				930126.7
1970																																				534099.6
1971																																				414699.5

CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT
0	0.00	475	14401	100.0	9	3.70	209	15748	93.7	18	140.0	1222	10992	65.4	27	5600	328	1173	6.9
1	0.10	49	16326	97.2	10	5.60	318	15539	92.5	19	220.0	1253	9770	58.2	28	8400	340	845	5.0
2	0.20	50	16277	96.9	11	8.40	378	15221	90.6	20	330.0	1291	8517	50.7	29	13000	215	505	3.0
3	0.50	51	16227	96.6	12	13.00	445	14843	88.3	21	490.0	1391	7226	43.0	30	19000	175	290	1.7
4	0.50	44	16176	96.3	13	14.00	496	14398	85.7	22	730.0	1314	5835	34.7	31	28000	87	115	.6
5	0.70	68	16128	96.0	14	24.00	574	13902	82.7	23	1100.0	1306	4521	26.9	32	43000	26	28	.1
6	1.10	77	16042	95.5	15	45.00	687	13328	79.3	24	1700.0	867	3215	19.1	33	64000	2	2	.0
7	1.70	105	15965	95.0	16	64.00	836	12641	75.2	25	2500.0	650	2348	14.0	34				
8	2.50	112	15860	94.4	17	96.00	813	11805	70.3	26	5700.0	525	1698	10.1					

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## KIAMICHI RIVER NEAR BELZONI, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1927	6.80 33	7.03 33	7.36 31	9.29 32	61.80 39	129.00 39	258.00 38	309.00 35	480.00 24	1470.00 16
1928	10.00 35	10.30 35	11.60 35	14.00 33	101.00 42	133.00 41	381.00 41	365.00 37	508.00 25	1920.00 32
1929	4.20 27	4.33 26	4.97 27	5.51 26	6.70 24	16.70 20	32.10 17	81.70 19	357.00 19	2220.00 36
1930	0.60 19	0.60 19	0.76 19	1.28 19	2.91 15	49.60 31	169.00 35	340.00 36	451.00 23	1590.00 23
1931	0.00 1	0.00 1	0.00 1	0.00 1	0.30 10	5.67 10	56.90 25	118.00 21	338.00 18	1440.00 15
1932	0.00 2	0.00 2	0.00 2	0.00 2	0.47 11	6.43 12	23.10 14	39.10 13	230.00 12	1810.00 28
1933	4.00 26	4.33 27	4.57 26	5.21 24	6.40 23	7.53 13	8.97 8	11.10 7	701.00 34	1490.00 17
1934	6.00 31	6.00 31	9.29 33	14.10 34	17.00 29	42.50 28	148.00 33	223.00 31	232.00 13	1060.00 8
1935	0.00 3	0.00 3	0.00 3	0.00 3	0.00 1	0.57 6	28.60 16	201.00 25	194.00 10	1530.00 19
1936	15.00 40	16.70 41	17.00 39	18.90 36	22.70 32	39.30 26	50.70 22	82.20 20	850.00 37	2490.00 40
1937	0.00 4	0.00 4	0.00 4	0.00 4	0.00 2	0.00 1	0.50 3	9.14 5	551.00 26	1530.00 20
1938	0.00 14	0.13 14	0.27 15	0.74 16	3.06 16	47.80 29	314.00 40	278.00 34	553.00 27	2270.00 37
1939	0.00 5	0.00 5	0.00 5	0.00 5	0.05 8	1.63 8	3.99 6	10.60 6	41.50 4	1010.00 7
1940	0.00 6	0.00 6	0.00 6	0.00 6	0.00 3	0.03 3	0.22 2	3.32 3	14.80 2	698.00 3
1941	3.10 24	3.60 24	4.33 24	5.34 25	7.04 26	13.00 18	42.40 21	65.50 18	362.00 21	1390.00 13
1942	4.50 28	5.17 29	7.71 32	9.18 31	21.90 31	48.90 30	53.10 24	195.00 24	686.00 33	1570.00 21
1943	6.50 32	6.50 32	7.07 30	8.45 28	12.20 28	122.00 37	117.00 29	249.00 32	423.00 22	1790.00 27
1944	0.00 7	0.00 7	0.00 7	0.00 7	0.00 4	1.46 7	12.90 9	44.10 14	112.00 8	1670.00 24
1945	0.10 15	0.10 13	0.11 13	0.34 14	5.24 21	28.80 24	37.40 19	38.20 12	304.00 15	2790.00 42
1946	34.00 44	36.30 44	40.90 44	47.60 44	125.00 44	310.00 43	466.00 43	1150.00 44	1240.00 43	3370.00 44
1947	1.10 21	1.20 20	1.47 20	1.99 20	5.55 22	8.70 14	16.70 11	25.70 10	1120.00 41	2310.00 38
1948	0.20 17	0.20 16	0.29 16	0.54 15	2.66 14	11.80 17	40.80 20	44.20 15	112.00 9	1830.00 29
1949	0.10 16	0.17 15	0.19 14	0.24 13	1.28 12	5.98 11	21.90 12	23.00 8	85.50 7	2020.00 34
1950	14.00 38	15.30 38	16.90 38	19.30 37	49.60 36	79.00 34	199.00 36	220.00 29	358.00 20	2080.00 35
1951	44.00 45	45.30 45	47.90 45	55.10 45	61.40 38	70.50 33	91.70 27	223.00 30	1250.00 44	2460.00 39
1952	13.00 37	14.30 37	16.00 37	21.50 39	52.80 37	102.00 36	151.00 34	427.00 39	768.00 36	1680.00 25
1953	0.00 8	0.00 8	0.00 8	0.00 8	0.14 9	3.67 9	8.73 7	9.11 4	72.80 6	1250.00 11
1954	4.80 29	4.93 28	5.60 28	7.21 27	10.50 27	11.10 15	23.20 15	50.30 16	570.00 30	1850.00 31
1955	0.00 9	0.00 9	0.00 9	0.00 9	0.00 5	0.03 4	1.14 5	25.10 9	336.00 17	1440.00 14
1956	3.80 25	4.03 25	4.36 25	5.18 23	6.86 25	22.10 22	22.90 13	50.90 17	576.00 31	766.00 4
1957	0.00 10	0.00 10	0.00 10	0.00 10	0.00 6	0.00 2	0.00 1	2.80 2	32.60 3	924.00 6
1958	5.00 30	5.50 30	6.81 29	9.04 30	26.60 33	34.00 25	111.00 28	1210.00 45	1760.00 45	3800.00 45
1959	12.00 36	13.00 36	14.00 36	14.60 35	18.00 30	67.90 32	125.00 32	187.00 23	234.00 14	1160.00 10
1960	16.00 41	16.30 40	23.00 41	32.40 40	96.10 41	346.00 44	923.00 45	912.00 43	1170.00 42	1720.00 26
1961	27.00 42	27.30 42	29.30 42	45.10 43	90.70 40	130.00 40	208.00 37	261.00 33	569.00 29	1840.00 30
1962	28.00 43	29.30 43	32.70 43	42.90 42	159.00 45	476.00 45	543.00 44	671.00 41	753.00 35	1930.00 33
1963	1.50 22	1.97 22	2.30 22	2.44 21	4.99 20	17.10 21	67.00 26	208.00 27	683.00 32	1130.00 9
1964	0.00 11	0.00 11	0.00 11	0.00 11	0.00 7	0.07 5	0.82 4	1.93 1	4.96 1	403.00 1
1965	0.00 12	0.00 12	0.00 12	0.03 12	1.35 13	14.60 19	51.60 23	204.00 26	556.00 28	1290.00 12
1966	7.00 34	7.63 34	10.40 34	21.20 38	26.90 34	40.90 27	124.00 31	219.00 28	222.00 11	821.00 5
1967	0.50 18	0.57 18	0.61 18	1.21 18	4.58 18	11.50 16	16.20 10	34.20 11	48.60 5	610.00 2
1968	1.60 23	2.13 23	4.00 23	9.00 29	31.80 35	129.00 38	276.00 39	867.00 42	952.00 39	2670.00 41
1969	15.00 39	16.00 39	19.60 40	33.80 41	110.00 43	147.00 42	459.00 42	491.00 40	1030.00 40	3190.00 43
1970	1.00 20	1.33 21	1.70 21	2.72 22	4.35 17	24.30 23	36.70 18	165.00 22	305.00 16	1570.00 22
1971	0.10 13	0.22 17	0.40 17	0.76 17	4.91 19	82.70 35	121.00 30	398.00 38	941.00 38	1520.00 18



HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## KIAMICHI RIVER NEAR HELZINI, OKLAHOMA

YEAR	1	5	7	15	30	60	90	120	183	ANNUAL
1926	17900.0 41	14900.0 41	8650.0 42	5150.0 42	3530.0 42	2610.0 40	2000.0 39	2090.0 37	1520.0 40	1030.0 35
1927	42600.0 12	36400.0 11	24500.0 7	19600.0 4	11100.0 7	6640.0 11	5490.0 9	4900.0 7	3710.0 10	2180.0 11
1928	49400.0 7	39800.0 8	21600.0 15	10400.0 23	9170.0 10	5700.0 14	5270.0 11	4050.0 15	3260.0 18	2060.0 13
1929	31100.0 22	24600.0 20	19400.0 18	13000.0 11	8060.0 16	4450.0 24	3530.0 23	3260.0 21	3190.0 19	1740.0 21
1930	24000.0 33	17000.0 36	14700.0 24	11600.0 20	7840.0 18	4150.0 28	3280.0 29	2940.0 25	2630.0 24	1470.0 26
1931	12900.0 45	9800.0 45	8260.0 43	5440.0 41	3760.0 40	2790.0 38	2300.0 37	1840.0 40	1500.0 41	898.0 40
1932	45900.0 9	37700.0 9	23500.0 13	12000.0 16	9000.0 13	7880.0 6	5690.0 8	4590.0 11	3900.0 8	2340.0 8
1933	27700.0 26	25400.0 24	12500.0 35	6670.0 37	4280.0 35	3360.0 33	3310.0 28	2870.0 28	2600.0 26	1380.0 26
1934	29700.0 23	26100.0 22	15400.0 32	8420.0 30	5040.0 31	3450.0 32	2820.0 35	2320.0 35	1730.0 36	967.0 38
1935	52800.0 5	47100.0 5	36000.0 3	19300.0 5	13000.0 4	11400.0 2	8070.0 3	7740.0 3	5630.0 3	3030.0 4
1936	35100.0 19	24400.0 21	13800.0 30	7190.0 35	3930.0 37	2430.0 42	1690.0 45	1300.0 46	982.0 45	759.0 43
1937	23700.0 34	21400.0 31	13900.0 29	10100.0 26	7650.0 22	4940.0 18	3670.0 22	3410.0 19	2850.0 22	1780.0 19
1938	68200.0 1	57400.0 2	35000.0 4	17300.0 6	12300.0 5	7310.0 8	6810.0 5	5470.0 6	4390.0 7	2390.0 7
1939	34700.0 20	32200.0 18	18300.0 19	10700.0 22	6130.0 28	4430.0 25	3400.0 27	2860.0 29	2000.0 33	1010.0 36
1940	14100.0 44	11100.0 44	8810.0 41	6020.0 39	3950.0 38	3320.0 34	2410.0 36	1950.0 39	1370.0 42	709.0 45
1941	25000.0 29	21800.0 30	17200.0 21	12000.0 17	7840.0 19	4500.0 23	3700.0 21	3190.0 22	2790.0 23	1520.0 24
1942	41300.0 13	37600.0 10	20300.0 17	12000.0 18	10900.0 14	6280.0 12	4870.0 15	4020.0 16	3090.0 20	1990.0 15
1943	46700.0 8	43400.0 6	23500.0 12	11500.0 21	6950.0 24	4240.0 27	3190.0 32	2450.0 34	2330.0 30	1290.0 31
1944	27500.0 27	25100.0 25	14900.0 23	9830.0 29	6550.0 25	4770.0 21	4990.0 12	4720.0 8	3600.0 13	1880.0 18
1945	53400.0 4	47500.0 4	39000.0 2	23800.0 1	15000.0 1	11200.0 3	9430.0 2	9980.0 1	7240.0 1	4210.0 1
1946	24700.0 31	21900.0 29	15200.0 22	10000.0 27	5740.0 29	5380.0 15	4050.0 17	4450.0 12	3530.0 14	1960.0 17
1947	44500.0 10	36000.0 12	24000.0 11	14800.0 8	8320.0 15	7120.0 9	4990.0 13	3800.0 18	3840.0 9	2310.0 10
1948	21700.0 36	15200.0 40	12500.0 36	7670.0 33	4920.0 32	3220.0 36	3120.0 34	2890.0 27	2610.0 25	1380.0 29
1949	64000.0 2	59500.0 1	39800.0 1	20000.0 3	13200.0 3	8040.0 5	6660.0 6	6110.0 5	4480.0 5	2330.0 9
1950	38800.0 16	35000.0 15	21300.0 16	12300.0 15	9010.0 12	6740.0 10	5430.0 10	4190.0 13	3420.0 15	3020.0 5
1951	43000.0 11	33800.0 16	22000.0 14	12700.0 13	8450.0 14	4640.0 22	3920.0 18	4100.0 14	3370.0 16	1760.0 20
1952	25300.0 28	23000.0 28	14000.0 28	12500.0 14	7720.0 21	5260.0 17	3810.0 19	3020.0 24	2540.0 27	1380.0 30
1953	36400.0 17	33700.0 17	25000.0 9	14200.0 9	10500.0 9	7550.0 7	5790.0 7	4630.0 9	3700.0 11	1980.0 16
1954	16500.0 43	15300.0 39	10000.0 38	7330.0 34	4440.0 34	2610.0 39	1810.0 43	2270.0 36	1640.0 38	850.0 42
1955	24300.0 32	21000.0 33	14200.0 27	7870.0 32	4590.0 33	3830.0 29	3220.0 30	2750.0 30	2110.0 32	1490.0 25
1956	11200.0 46	9420.0 46	5590.0 46	4100.0 45	2610.0 46	1580.0 46	1440.0 46	1410.0 45	972.0 46	514.0 46
1957	39500.0 14	35300.0 14	28700.0 6	20600.0 2	13900.0 2	11600.0 1	9790.0 1	7810.0 2	5790.0 2	3320.0 2
1958	50000.0 6	41400.0 7	24400.0 10	12600.0 12	7820.0 20	5870.0 13	4520.0 16	3910.0 17	3630.0 12	2050.0 14
1959	21000.0 37	15400.0 38	9640.0 39	6010.0 40	3260.0 44	2050.0 45	1790.0 44	1670.0 42	1540.0 39	901.0 39
1960	58000.0 3	50500.0 3	29300.0 5	14200.0 10	9040.0 11	4860.0 20	3810.0 20	3290.0 20	3270.0 17	2130.0 12
1961	36400.0 18	24700.0 26	13600.0 31	7010.0 36	4260.0 36	3550.0 31	3210.0 31	2670.0 33	2530.0 28	1540.0 23
1962	29700.0 24	26000.0 23	14600.0 25	8340.0 31	6230.0 26	3640.0 30	3170.0 33	2900.0 26	2960.0 21	1670.0 22
1963	17600.0 42	11700.0 43	6940.0 45	3710.0 46	2640.0 45	2200.0 44	1840.0 42	1570.0 43	1330.0 43	869.0 41
1964	19200.0 39	15700.0 37	8060.0 44	4460.0 43	3790.0 39	2490.0 41	1930.0 41	1500.0 44	1080.0 44	737.0 44
1965	20600.0 38	18000.0 35	8810.0 40	4450.0 44	3400.0 43	2830.0 37	2200.0 38	2040.0 38	1620.0 35	1130.0 34
1966	34100.0 21	29300.0 19	17800.0 20	11700.0 19	6220.0 27	3260.0 35	3490.0 24	2750.0 31	1890.0 34	1010.0 37
1967	24900.0 30	21200.0 32	13100.0 33	8940.0 28	7150.0 23	4920.0 19	3480.0 26	2720.0 32	2260.0 31	1170.0 32
1968	39300.0 15	35800.0 13	26800.0 8	16500.0 7	11800.0 6	9420.0 4	7740.0 4	6710.0 4	5280.0 4	3060.0 3
1969	29700.0 25	23300.0 27	14300.0 26	10300.0 24	7940.0 17	5380.0 16	4980.0 14	4630.0 10	4450.0 6	2550.0 6
1970	23400.0 35	18300.0 34	13000.0 34	10200.0 25	5740.0 30	4260.0 26	3490.0 25	3090.0 23	2490.0 29	1460.0 27
1971	18900.0 40	14000.0 42	11600.0 37	6070.0 38	3680.0 41	2250.0 43	1990.0 40	1710.0 41	1690.0 37	1140.0 33



## RED RIVER BASIN

07337000 RED RIVER AT INDEX, ARK.

LOCATION.--Lat 33°33'07", long 94°02'28", in NW 1/4 SE 1/4 sec.7, T.14 S., R.28 W., Miller County, near right bank on downstream side of bridge on U.S. Highway 71 at Index, 2.2 mi (3.5 km) south of Ogden, 20.6 mi (33.1 km) upstream from Little River, and at mile 485.3 (780.8 km).

DRAINAGE AREA.--48,030 mi<sup>2</sup> (124,400 km<sup>2</sup>), of which 5,936 mi<sup>2</sup> (15,370 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD.--July 1936 to September 1974. Statistical summaries for this station are divided into unregulated and regulated periods.

AVERAGE DISCHARGE.--6 years (1937-42), 13,626 ft<sup>3</sup>/s (386 m<sup>3</sup>/s); 31 years (1944-74), 11,612 ft<sup>3</sup>/s (329 m<sup>3</sup>/s).

REMARKS.--Flow regulated by Lake Texhoma (Texas), by Pat Mayse Lake (Texas) and by Hugo Lake (Oklahoma).

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

## RED RIVER AT INDEX, ARKANSAS

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34		
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS		
1937										25	21	36	20	36	36	23	31	20	22	16	17	12	18	13	10	5	1	1	1						3656740.0		
1938									11	55	22	27	18	10	10	11	23	34	37	15	19	6	11	13	4	11	4	3	4	1	7	4	1	2	1	1	6434120.0
1939		4	7	4	43	48	32	15	15	20	35	16	23	17	17	14	14	9	4	7	7	4	5	1			2	2							1766195.0		
1940		34	51	38	21	23	20	11	7	11	8	10	7	9	15	9	11	10	9	17	10	16	4	5	3	2	5									2487622.0	
1941					7	15	15	3		3	4	11	21	27	26	31	20	16	16	14	24	13	17	19	13	6	9	14	7	6	5	3				6901325.0	
1942									2	2	18	9	17	35	37	35	28	30	17	30	7	10	13	16	7	11	6	5	6	14	6	4				8599250.0	
1943					5	27	15	4	8	18	15	49	30	24	24	25	15	16	7	16	7	12	9	6	12	6	7	3	2	3						4368431.0	

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	2556	100.0	9	2000.00	98	1988	77.8	18	12000.0	82	697	27.3	27	70000	20	87	3.4
1	415.00	38	2556	100.0	10	2400.00	150	1890	73.9	19	14000.0	130	615	24.1	28	85000	16	67	2.6
2	510.00	58	2518	98.5	11	3000.00	143	1740	68.1	20	18000.0	62	485	19.0	29	100000	29	51	1.9
3	620.00	49	2460	96.2	12	3600.00	150	1597	62.5	21	21000.0	88	423	16.5	30	130000	13	22	.8
4	750.00	84	2411	94.3	13	4400.00	157	1447	56.6	22	26000.0	76	335	13.1	31	150000	5	9	.3
5	910.00	113	2327	91.0	14	5400.00	158	1290	50.5	23	32000.0	55	259	10.1	32	190000	2	4	.1
6	1100.00	70	2214	86.6	15	6600.00	157	1132	44.3	24	39000.0	44	204	8.0	33	230000	1	2	.0
7	1400.00	41	2144	83.9	16	8000.00	138	975	38.1	25	47000.0	35	160	6.3	34	280000	1	1	.0
8	1600.00	115	2103	82.3	17	9700.00	140	837	32.7	26	57000.0	38	125	4.9					

## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## RED RIVER AT INDEX, ARKANSAS

YEAR	1	5	7	14	30	60	90	120	183	ANNUAL								
1938	1600.00	5	1600.00	4	1620.00	4	2210.00	4	3100.00	4	4070.00	4	4270.00	4	4710.00	3	14200.00	4
1939	775.00	3	782.00	3	792.00	3	811.00	3	862.00	3	956.00	2	941.00	2	1040.00	2	8900.00	2
1940	415.00	1	442.00	1	470.00	1	491.00	1	514.00	1	580.00	1	592.00	1	598.00	1	3620.00	1
1941	680.00	2	688.00	2	712.00	2	767.00	2	834.00	2	1390.00	3	2010.00	3	3020.00	3	6840.00	4
1942	2700.00	6	2810.00	6	2970.00	6	3290.00	6	3720.00	6	5390.00	6	7080.00	6	8760.00	6	23500.00	6
1943	1600.00	4	1880.00	5	2200.00	5	2410.00	5	2760.00	5	3720.00	5	5300.00	5	6330.00	5	18100.00	5

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## RED RIVER AT INDEX, ARKANSAS

YEAR	1	5	7	15	30	60	90	120	183	ANNUAL										
1937	86000.0	5	75200.0	5	45600.0	6	30000.0	6	25400.0	6	17200.0	6	15000.0	6	14500.0	6	13000.0	5	10000.0	5
1938	286000.0	1	262000.0	1	206000.0	1	122000.0	1	67200.0	3	57300.0	3	48500.0	3	34800.0	2	31000.0	1	17600.0	3
1939	67600.0	7	60800.0	6	45100.0	7	27800.0	7	21400.0	7	14300.0	7	11900.0	7	10400.0	7	8410.0	7	8440.0	7
1940	68500.0	6	60800.0	7	57500.0	5	41800.0	5	28600.0	5	22700.0	5	19500.0	5	17700.0	5	12800.0	6	6800.0	6
1941	142000.0	3	140000.0	3	121000.0	3	93300.0	3	68700.0	2	60900.0	2	50200.0	2	39500.0	3	30400.0	2	18900.0	2
1942	177000.0	2	171000.0	2	154000.0	2	122000.0	2	104000.0	1	64500.0	1	50900.0	1	40400.0	1	29100.0	3	23600.0	1
1943	111000.0	4	107000.0	4	94200.0	4	71500.0	4	57800.0	4	39600.0	4	30400.0	4	24500.0	4	18600.0	4	12000.0	4

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

RED RIVER AT INDEX, ARKANSAS

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS	
1944			7	5	30	27	15	46	16	24	10	17	15	12	13	21	16	9	10	16	6	12	7	6	8	5	2	5	2	2	2				2584112.0	
1945		2	17	4	2	4	3	8	7	12	12	12	15	18	20	10	10	12	10	11	9	12	13	12	10	15	16	19	27	13	7	14	6	2	1	9239468.0
1946									2	11	6	15	37	14	12	25	24	10	28	22	15	16	22	24	17	19	14	14	12	5	1				5939630.0	
1947										2	17	41	25	16	26	26	31	24	26	9	11	16	16	10	9	12	9	8	21	2	7	1			6614640.0	
1948										6	21	34	52	38	23	24	23	20	16	18	14	19	15	10	7	7	11	4	2	1	1				3612330.0	
1949									6	20	26	39	53	31	12	23	15	21	13	15	10	8	14	14	15	7	6	4	7			2	3	1	4051490.0	
1950										5	30	51	21	8	25	30	17	11	9	14	25	18	12	19	23	18	11	11	4	3					6967970.0	
1951										1	11	37	70	47	30	24	18	17	16	10	7	4	11	8	9	19	11	6	2	2	5				4832540.0	
1952							1	5	14	27	33	38	88	23	32	21	19	18	8	7	7	10	2	2	2	2	1	1	4			2	1		2655710.0	
1953							1	6	7	19	24	34	68	46	16	36	23	15	11	5	3	6	8	4	3	8	5	5	4			3			3207310.0	
1954									1	22	34	29	56	49	38	29	18	7	6	10	17	11	5	5	10	5	2	3	5	3					2939670.0	
1955									4	5	20	21	47	43	39	42	32	25	20	13	8	7	12	9	6	4	5	1	2						2817910.0	
1956				2	4	4	4	18	16	53	30	15	15	32	53	40	8	17	9	9	4	11	4	6	2	3	7	3							2089168.0	
1957	34	15	15	3	4	3	5	3	3	11	12	17	28	28	17	13	11	5	9	6	5	5	10	6	7	3	5	12	28	11	17	10	5	2	9053145.0	
1958										7	6	11	16	33	24	30	49	45	26	16	15	20	13	9	7	11	8	8	4	2	1	2	2			5528720.0
1959									6	18	39	44	52	39	34	34	29	10	16	12	9	8	9	2	1	1	2								2003520.0	
1960										12	10	23	28	47	33	33	20	16	27	25	17	18	14	14	11	2	6	10								4310390.0
1961											3	13	28	40	46	35	41	37	18	19	18	13	12	6	16	6	4	4	3	3					3718060.0	
1962											10	5	3	11	24	41	36	55	29	26	17	19	17	19	15	16	12	4	4	2						3990330.0
1963										8	3	23	23	14	38	43	37	31	44	26	17	12	10	9	6	3	10	2	4	1	1					2543910.0
1964										4	22	19	38	22	36	27	35	37	35	11	15	10	7	9	9	5	6	3	2	4	1					1604245.0
1965										3	8	21	23	30	32	46	58	27	19	18	15	17	13	10	7	7	2	3	3	1	1	1				2477650.0
1966										3	16	23	38	65	57	69	23	32	6	2	2	3	3	3	1	1	1	4	2	1	2	4	4			2689940.0
1967							3	5	4	16	25	57	45	39	44	26	7	14	8	8	16	9	5	6	8	8	2	2							2742920.0	
1968										5	9	17	19	28	35	30	29	23	14	20	16	18	15	10	8	14	15	13	15	7	1	2	3			6048320.0
1969										1	5	16	28	41	28	19	31	19	13	15	15	26	25	12	12	13	7	8	11	13	4	3				5971600.0
1970										4	10	19	34	49	56	35	27	23	15	15	14	11	16	7	8	9	7	4	1	1						3338620.0
1971										7	10	18	14	29	32	62	37	29	29	28	17	12	8	6	8	6	8	5								1972690.0
1972										10	6	18	12	23	19	27	41	37	43	16	17	28	10	8	9	4	3	2	3			3	3	1		3090738.0
1973										2	5	2	9	1	2	12	12	21	37	34	24	13	14	13	28	16	16	19	12	15	16	15	20	4	3	7329540.0
1974											6	11	19	37	27	14	25	27	26	20	14	22	27	17	19	13	19	11	6	5						5514400.0

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	11323	100.0	9	1600.00	393	10729	94.8	18	8400.0	501	3727	32.9	27	43000	184	671	5.9
1	384.00	36	11323	100.0	10	2000.00	491	10336	91.3	19	10000.0	437	3226	28.5	28	51000	179	487	4.3
2	460.00	39	11287	99.7	11	2400.00	673	9845	86.9	20	12000.0	342	2789	24.6	29	61000	151	308	2.7
3	550.00	26	11248	99.3	12	2800.00	1089	9172	81.0	21	14000.0	381	2447	21.6	30	74000	50	157	1.3
4	660.00	43	11222	99.1	13	3400.00	1153	8083	71.4	22	17000.0	383	2066	18.2	31	88000	66	107	.9
5	790.00	71	11179	98.7	14	4100.00	1009	6930	61.2	23	21000.0	285	1683	14.9	32	110000	26	41	.3
6	950.00	63	11108	98.1	15	4900.00	823	5921	52.3	24	25000.0	267	1398	12.3	33	130000	12	15	.1
7	1100.00	171	11045	97.5	16	5800.00	766	5098	45.0	25	30000.0	229	1131	10.0	34	150000	3	3	.0
8	1400.00	145	10874	96.0	17	7000.00	605	4332	38.3	26	36000.0	231	902	8.0					

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## RED RIVER AT INDEX, ARKANSAS

YEAR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	ANNUAL
1945	452.00	2	461.00	2	471.00	2	490.00	2	600.00	2	900.00	2	899.00	2	973.00	2	1790.00	3	12700.00	22												
1946	1550.00	14	1570.00	11	1620.00	10	1710.00	8	2330.00	12	3770.00	22	8090.00	29	12300.00	30	14200.00	28	26500.00	29												
1947	2350.00	28	2590.00	28	2930.00	29	3000.00	26	3160.00	23	3610.00	21	3930.00	19	4370.00	17	9660.00	27	14600.00	25												
1948	1770.00	18	1850.00	18	2150.00	18	2480.00	21	2600.00	15	2670.00	11	2760.00	9	2920.00	9	4640.00	15	14100.00	24												
1949	1420.00	9	1570.00	12	1650.00	11	1930.00	10	2130.00	8	2350.00	7	2380.00	6	2520.00	6	3000.00	5	10800.00	17												
1950	2100.00	24	2310.00	27	2630.00	25	2690.00	22	2850.00	21	3100.00	15	3420.00	15	4010.00	15	4520.00	14	12100.00	21												
1951	2380.00	29	2610.00	29	2960.00	30	3100.00	28	3410.00	27	3520.00	20	4180.00	20	4750.00	20	8860.00	25	17000.00	26												
1952	1520.00	13	1630.00	13	1840.00	14	2050.00	14	2600.00	16	3280.00	18	3480.00	17	4070.00	16	4300.00	11	11500.00	19												
1953	1040.00	6	1100.00	7	1280.00	7	1550.00	7	1900.00	6	2090.00	5	2240.00	5	2510.00	5	3050.00	6	7010.00	6												
1954	1580.00	14	1750.00	15	1860.00	15	1960.00	12	2260.00	10	2540.00	9	2830.00	10	3010.00	10	4460.00	12	8730.00	9												
1955	1440.00	11	1500.00	9	1740.00	12	2410.00	19	2560.00	14	3110.00	16	3740.00	18	4740.00	19	5080.00	17	9610.00	12												
1956	1500.00	12	1830.00	17	2430.00	24	2700.00	23	3260.00	24	3880.00	23	4680.00	21	5940.00	25	7550.00	23	8050.00	8												
1957	384.00	1	393.00	1	397.00	1	410.00	1	464.00	1	544.00	1	710.00	1	855.00	1	1180.00	1	1600.00	2												
1958	1880.00	22	2000.00	21	2260.00	20	2480.00	20	2760.00	19	3390.00	19	10500.00	30	9950.00	28	14400.00	29	31100.00	30												
1959	1420.00	10	1500.00	10	1580.00	9	1960.00	13	2280.00	11	2700.00	13	3150.00	12	3030.00	12	3300.00	8	8820.00	10												
1960	1780.00	17	1950.00	20	2310.00	21	2360.00	18	3290.00	25	4190.00	26	5300.00	22	6940.00	26	7630.00	22	11200.00	18												
1961	2120.00	25	2270.00	25	2720.00	27	3020.00	27	3390.00	26	4020.00	24	5350.00	23	5330.00	21	6660.00	21	9910.00	14												
1962	2170.00	27	2300.00	26	2700.00	26	2900.00	25	3590.00	28	4600.00	28	5530.00	26	5570.00	22	5930.00	19	9800.00	13												
1963	1780.00	19	1790.00	16	1810.00	13	1940.00	11	2750.00	17	4290.00	27	5700.00	27	7760.00	27	8890.00	26	10100.00	15												
1964	755.00	3	772.00	3	827.00	3	895.00	3	1020.00	3	1170.00	3	1240.00	3	1300.00	3	1570.00	3	3550.00	1												
1965	1320.00	8	1350.00	8	1500.00	8	1730.00	9	2050.00	7	2670.00	12	3450.00	16	3850.00	13	4510.00	13	6890.00	5												
1966	1580.00	16	1730.00	14	1960.00	16	2270.00	16	2440.00	13	2660.00	10	2940.00	11	3010.00	11	3540.00	9	5380.00	3												
1967	1040.00	7	1060.00	6	1170.00	6	1400.00	6	2200.00	9	2290.00	6	2470.00	7	2730.00	8	3130.00	7	6460.00	4												
1968	1860.00	21	1890.00	19	2070.00	17	2250.00	15	2750.00	18	4040.00	25	5360.00	24	5650.00	23	6140.00	20	11700.00	20												
1969	2400.00	30	2620.00	30	2900.00	28	3430.00	30	4200.00	30	5360.00	29	5530.00	25	5710.00	24	8150.00	24	19100.00	27												
1970	1940.00	23	2090.00	23	2400.00	22	2700.00	24	2860.00	22	3030.00	14	3240.00	13	3970.00	14	4650.00	16	13200.00	23												
1971	1810.00	20	2030.00	22	2190.00	19	2330.00	17	2810.00	20	3230.00	17	3330.00	14	4430.00	18	5640.00	18	7330.00	7												
1972	1030.00	5	1030.00	5	1080.00	5	1160.00	5	1540.00	5	2510.00	8	2740.00	8	2720.00	7	4040.00	10	8960.00	11												
1973	850.00	4	864.00	4	893.00	4	932.00	4	1230.00	4	1470.00	4	1700.00	4	1970.00	4	2660.00	4	10200.00	16												
1974	2140.00	26	2220.00	24	2420.00	23	3230.00	29	4130.00	29	5370.00	30	7180.00	28	11200.00	29	16400.00	30	19700.00	28												

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## RED RIVER AT INDEX, ARKANSAS

YEAR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	ANNUAL
1944	87700.0	14	78000.0	15	57200.0	18	32400.0	24	23400.0	23	17400.0	22	17700.0	18	17100.0	16	12900.0	19	7060.0	25												
1945	151000.0	2	143000.0	2	116000.0	3	92200.0	2	71500.0	2	64800.0	2	60200.0	2	54800.0	2	45700.0	1	25300.0	1												
1946	74400.0	17	70700.0	16	64200.0	15	54400.0	11	42400.0	12	28800.0	10	24900.0	11	25100.0	8	21700.0	8	16300.0	8												
1947	110000.0	8	105000.0	7	90300.0	9	66200.0	10	55400.0	6	42400.0	4	34600.0	5	28800.0	7	25100.0	7	18100.0	5												
1948	79600.0	16	66800.0	18	48000.0	21	34100.0	22	26000.0	20	18100.0	21	17200.0	22	15500.0	19	14600.0	14	9870.0	16												
1949	111000.0	6	108000.0	6	91500.0	8	51900.0	13	33400.0	17	24500.0	15	21300.0	14	20500.0	12	19200.0	11	11100.0	13												
1950	107000.0	10	98500.0	10	71900.0	13	48700.0	15	42900.0	10	38300.0	7	31800.0	7	29000.0	6	25200.0	6	19100.0	4												
1951	102000.0	11	96500.0	11	91800.0	6	71800.0	7	55400.0	7	42200.0	6	31400.0	8	24900.0	9	21000.0	10	13200.0	11												
1952	111000.0	7	104000.0	8	75200.0	12	53900.0	12	35300.0	16	22400.0	18	17300.0	21	14400.0	22	10900.0	24	7260.0	24												
1953	87300.0	15	82600.0	14	66800.0	14	44400.0	17	42700.0	11	27400.0	13	21900.0	13	17400.0	14	14100.0	15	8790.0	18												
1954	73200.0	18	70300.0	17	61500.0	17	48700.0	16	37900.0	14	25800.0	14	19600.0	15	15900.0	18	12900.0	20	8050.0	20												
1955	84600.0	24	50500.0	25	38900.0	24	23800.0	27	16600.0	28	12000.0	27	10400.0	26	10400.0	26	9210.0	26	7720.0	21												
1956	40400.0	29	38800.0	29	36000.0	27	25800.0	26	18400.0	25	11800.0	28	9490.0	28	8140.0	28	6450.0	28	5710.0	28												
1957	153000.0	1	151000.0	1	142000.0	1	125000.0	1	108000.0	1	95800.0	1	78200.0	1	65200.0	1	45300.0	2	28800.0	2												
1958	74300.0	3	136000.0	3	110000.0	4	78500.0	4	51600.0	8	31700.0	9	26400.0	9	22900.0	10	21500.0	9	15100.0	9												
1959	46000.0	28	41700.0	28	30500.0	29	22400.0	28	14500.0	29	10100.0	30	8340.0	31	7670.0	30	7520.0	29	5490.0	29												
1960	60000.0	23	55300.0	23	52700.0	19	41300.0	18	26000.0	21	22500.0	17	18900.0	16	17100.0	15	15500.0	13	11800.0	12												
1961	68000.0	19	63000.0	20	51700.0	20	33400.0	23	22700.0	24	16400.0	23	14700.0	24	14900.0	21	13900.0	16	10200.0	15												
1962	53800.0	25	51200.0	24	42100.0	23	35000.0	21	26400.0	19	16200.0	24	15200.0	23	13500.0	24	12600.0	21	10900.0	14												
1963	53000.0	26	48900.0	27	35800.0	28	26500.0	25	17600.0	26	14400.0	25	12600.0	25	11200.0	25	9220.0	25	6770.0	16												
1964	36600.0	30	34400.0	30	28600.0	30	17600.0	30	14300.0	30	10800.0	29	8980.0	29	8050.0	29	6440.0	31	4360.0	31												
1965	67000.0	20	56200.0	22	37000.0	26	21300.0	29	16700.0	27	12000.0	26	9990.0	27	10100.0	27	8520.0	27	6790.0	27												
1966	108000.0	9	102000.0	9	91800.0	7	69700.0	8	40300.0	13	22600.0	16	17500.0	19	15000.0	20	11300.0	23	7370.0	23												
1967	53000.0	27	47100.0	26	38200.0	25	35700.0	20	27500.0	18	22100.0	19	17500.0	20	14200.0	23	11900.0	22	7510.0	22												
1968	122000.0	5	119000.0	5	100000.0	5	77400.0	5	58400.0	4	42400.0	5	38900.0	4	34800.0	4	27300.0	4	16500.0	6												
1969	100000.0	12	94000.0	12	78600.0	10	74300.0	6	59800.0	3	38100.0	8	34000.0	6	34000.0	5	27100.0	5	16400.0	7												
1970	62700.0	22	57200.0	21	47700.0	22	36500.0	19	25000.0	22	19900.0	20	18600.0	17	16200.0	17	15500.0	18	9150.0	17												
1971	26800.0	31	25600.0	31	22200.0	31	18300.0	31	14100.0	31	9610.0	31	8430.0	30	7520.0	30	6750.0	30	5400.0	30												
1972	40000.0	4	39000.0	4	34000.0	2	28000.0	3	47200.0	9	28500.0	11	22300.0	12	18800.0	13	13900.0	17	8440.0	19												
1973	66200.0	13	62200.0	13	54400.0	11	46200.0	9	58200.0	5	45600.0	3	37900.0	3	33900.0	3	30500.0	3	26100.0	3												
1974	85500.0	21	82500.0	19	68200.0	16	51800.0	14	35800.0	15	28500.0	12	23900.0	10	21900.0	11	18600.0	12	15100.0	16												



LOCATION.--Lat 34°04'10", long 95°02'47", in NE 1/4 NW 1/4 sec.6, T.6 S., R.22 E., McCurtain County, on left bank on downstream side of bridge on State Highway 98, 1.8 mi (2.9 km) upstream from White Oak Creek, 2.0 mi (3.2 km) west of Wright City, 4.7 mi (7.6 km) downstream from Pine Creek Lake, and at mile 140.6 (226.2 km).

PERIOD OF RECORD.--October 1929 to September 1931, October 1944 to September 1974. Statistical summaries for this station are divided into unregulated and regulated periods.

AVERAGE DISCHARGE.--27 years (1930-69), 918 ft<sup>3</sup>/s (26.0 m<sup>3</sup>/s); 5 years (1970-74), 1,058 ft<sup>3</sup>/s (30.0 m<sup>3</sup>/s).

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

<b>CLASS</b>	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
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[illegible]

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	210	9861	100.0	9	3.60	228	8923	90.5	18	130.0	741	5705	57.9	27	4800	213	417	4.2
1	0.10	59	9651	97.9	10	5.40	198	8695	88.2	19	200.0	687	4964	50.3	28	7100	89	204	2.0
2	0.20	41	9592	97.3	11	8.00	191	8497	86.2	20	290.0	811	4277	43.4	29	11000	60	115	1.1
3	0.30	47	9551	96.9	12	12.00	221	8306	84.2	21	430.0	844	3466	35.1	30	16000	28	55	0.5
4	0.50	35	9504	96.4	13	18.00	306	8085	82.0	22	650.0	678	2622	26.6	31	23000	18	27	0.2
5	0.70	163	9469	96.0	14	27.00	404	7779	78.9	23	960.0	521	1944	19.7	32	35000	7	9	0.0
6	1.10	85	9306	94.4	15	40.00	463	7375	74.8	24	1400.0	418	1423	14.4	33	52000	2	2	0.0
7	1.60	141	9221	93.5	16	59.00	561	6912	70.1	25	2100.0	331	1005	10.2	34				
8	2.40	157	9080	92.1	17	88.00	646	6351	64.4	26	3200.0	257	674	6.8					

## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## LITTLE RIVER NEAR WRIGHT CITY, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1931	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.05 2	0.67 2	8.73 6	58.30 7	1020.00 17
1946	15.00 20	16.30 20	19.60 21	26.60 22	57.20 24	195.00 25	294.00 24	529.00 25	532.00 22	1440.00 23
1947	1.00 12	1.00 12	1.00 10	1.00 10	1.37 9	2.28 8	4.21 7	8.99 7	589.00 23	1210.00 20
1948	0.40 9	0.40 8	0.40 8	0.44 8	0.77 7	1.42 6	1.43 4	3.73 3	41.50 4	945.00 13
1949	0.20 6	0.20 6	0.20 6	0.21 6	0.33 5	1.35 5	4.90 8	4.81 4	14.40 2	1030.00 18
1950	9.80 19	10.60 19	11.80 19	16.80 18	34.70 20	122.00 23	172.00 22	174.00 19	320.00 15	1290.00 21
1951	20.00 23	22.00 24	24.40 24	30.60 23	56.20 23	75.70 21	94.30 19	209.00 21	791.00 24	1320.00 22
1952	2.30 16	2.40 16	2.77 16	3.79 16	8.45 15	21.30 14	33.70 12	166.00 18	416.00 19	962.00 14
1953	0.20 7	0.20 7	0.20 7	0.25 7	0.41 6	1.62 7	3.18 6	4.84 5	52.50 5	718.00 8
1954	1.00 13	1.00 13	1.13 12	1.46 11	2.47 11	3.90 9	10.70 10	28.50 8	274.00 13	962.00 15
1955	0.00 2	0.00 2	0.00 2	0.00 2	0.02 3	0.14 3	1.20 3	40.50 10	433.00 20	839.00 11
1956	0.60 10	0.67 9	1.03 11	1.97 14	2.16 10	11.90 13	30.30 11	65.20 11	255.00 12	434.00 3
1957	0.00 3	0.00 3	0.00 3	0.00 3	0.00 2	0.00 1	0.00 1	0.56 1	38.60 3	543.00 5
1958	3.40 17	3.70 17	4.70 17	9.50 17	25.00 18	30.30 15	55.30 14	440.00 24	799.00 25	1690.00 25
1959	16.00 21	19.00 22	21.90 22	34.30 24	54.40 22	103.00 22	146.00 21	142.00 17	157.00 8	635.00 7
1960	18.00 22	18.00 21	19.10 20	20.20 20	52.30 21	56.40 19	193.00 23	261.00 22	383.00 18	722.00 9
1961	21.00 24	21.30 23	22.00 23	24.30 21	31.90 19	62.60 20	59.20 15	107.00 13	245.00 11	846.00 12
1962	26.00 25	28.30 25	32.40 25	39.20 25	84.90 25	176.00 24	319.00 25	331.00 23	353.00 17	981.00 16
1963	1.00 14	1.07 14	1.24 13	1.48 12	3.24 14	6.52 12	70.00 16	83.80 12	343.00 16	600.00 6
1964	0.10 5	0.10 5	0.10 5	0.10 5	0.11 4	0.55 4	1.51 5	2.26 2	4.93 1	198.00 1
1965	0.00 4	0.00 4	0.01 4	0.07 4	0.78 8	5.53 11	34.50 13	131.00 14	223.00 10	738.00 10
1966	1.20 15	1.33 15	1.66 15	2.24 15	9.10 16	34.20 17	77.10 17	136.00 16	165.00 9	437.00 4
1967	0.26 8	0.92 11	1.28 14	1.95 13	3.12 13	4.73 10	9.38 9	30.00 9	55.90 6	345.00 2
1968	0.89 11	0.90 10	0.93 9	0.98 9	2.66 12	32.40 16	82.80 18	200.00 20	281.00 14	1120.00 19
1969	6.80 18	8.27 18	11.40 18	17.00 19	22.80 17	52.70 18	113.00 20	134.00 15	448.00 21	1660.00 24

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## LITTLE RIVER NEAR WRIGHT CITY, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1930	28300.0 10	19200.0 8	14000.0 3	11400.0 1	7100.0 2	3650.0 7	2700.0 7	2290.0 8	2150.0 7	1150.0 7
1931	14400.0 19	8260.0 20	6520.0 17	3910.0 18	2780.0 17	1910.0 17	1420.0 19	1160.0 21	908.0 21	482.0 22
1945	42400.0 4	26700.0 2	14300.0 2	10600.0 3	7110.0 1	5850.0 1	4850.0 1	4600.0 1	3360.0 1	1980.0 1
1946	20500.0 13	10700.0 15	6580.0 16	4860.0 15	5300.0 13	2970.0 10	2310.0 10	2460.0 6	1990.0 8	1100.0 9
1947	34400.0 6	22700.0 5	11800.0 6	6070.0 9	3920.0 10	3380.0 8	2410.0 8	1840.0 12	1820.0 11	1130.0 8
1948	19000.0 14	12000.0 13	6800.0 15	4000.0 17	2680.0 20	1710.0 19	1760.0 15	1580.0 14	1500.0 14	771.0 17
1949	59400.0 1	39400.0 1	21400.0 1	10900.0 2	6640.0 3	3940.0 5	3370.0 4	3180.0 4	2270.0 4	1190.0 5
1950	52200.0 2	25500.0 3	12600.0 4	7180.0 6	4460.0 8	4300.0 3	3110.0 5	2470.0 5	2180.0 5	1800.0 2
1951	31200.0 7	17000.0 11	10800.0 9	6510.0 8	4950.0 6	2610.0 12	2210.0 12	1920.0 11	1810.0 12	958.0 12
1952	29900.0 8	17400.0 10	9070.0 12	7260.0 5	4340.0 9	2980.0 9	2190.0 13	1780.0 13	1490.0 15	822.0 14
1953	27800.0 11	18200.0 9	9800.0 11	5460.0 13	4810.0 7	3720.0 6	2950.0 6	2380.0 7	1930.0 9	1040.0 11
1954	12600.0 21	7800.0 23	4870.0 23	3610.0 19	2270.0 21	1560.0 23	1080.0 24	1070.0 23	943.0 20	489.0 21
1955	14800.0 18	9230.0 18	5400.0 19	3020.0 21	2150.0 23	1480.0 24	1330.0 22	1180.0 20	1140.0 18	752.0 18
1956	10900.0 22	7220.0 24	3990.0 25	2730.0 24	1990.0 25	1240.0 25	996.0 25	935.0 25	640.0 27	363.0 27
1957	24300.0 12	15000.0 12	12200.0 5	9080.0 4	6050.0 4	4870.0 2	4220.0 2	3480.0 3	2640.0 3	1490.0 4
1958	29000.0 9	21400.0 6	10900.0 8	6060.0 10	3750.0 11	2910.0 11	2240.0 11	2060.0 10	1890.0 10	1060.0 10
1959	7840.0 26	5190.0 27	3560.0 26	2270.0 26	1290.0 27	922.0 27	736.0 27	650.0 27	656.0 26	428.0 25
1960	42100.0 5	23400.0 4	11200.0 7	5580.0 12	3630.0 12	2030.0 15	1630.0 16	1440.0 17	1520.0 13	948.0 13
1961	47100.0 3	20400.0 7	10200.0 10	5090.0 14	2750.0 18	2040.0 14	1810.0 14	1450.0 15	1350.0 17	812.0 15
1962	16000.0 16	11500.0 14	5740.0 18	3090.0 20	2830.0 16	1760.0 18	1420.0 17	1440.0 16	1420.0 16	803.0 16
1963	8050.0 25	5350.0 26	2920.0 27	1800.0 27	1320.0 26	1030.0 26	936.0 26	811.0 26	735.0 24	462.0 23
1964	10500.0 23	7860.0 22	5270.0 20	2880.0 23	2140.0 24	1610.0 21	1260.0 23	984.0 24	688.0 25	412.0 26
1965	13800.0 20	9480.0 17	5050.0 22	2670.0 25	2180.0 22	1670.0 20	1350.0 21	1220.0 19	1100.0 19	671.0 19
1966	15200.0 17	9690.0 16	8550.0 13	5590.0 11	3060.0 15	1580.0 22	1520.0 18	1230.0 18	881.0 22	494.0 20
1967	16300.0 15	9140.0 19	4520.0 24	2890.0 22	2740.0 19	1920.0 16	1370.0 20	1080.0 22	801.0 23	438.0 24
1968	9860.0 24	8210.0 21	7720.0 14	6780.0 7	5220.0 5	4220.0 4	4170.0 3	3500.0 2	2810.0 2	1550.0 3
1969	6050.0 27	5630.0 25	5270.0 21	4460.0 16	3270.0 14	2570.0 13	2320.0 9	2250.0 9	2160.0 6	1180.0 6

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

## LITTLE RIVER NEAR WRIGHT CITY, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	
YEAR	NUMBER OF DAYS IN CLASS																																			CFS_DAYS
1970																																				223660.0
1971																																				238495.5
1972	1			1			1	2	3	19	5	9	10	26	32	42	19	10	9	1	5	18	41	13	15	13	11	5	11	10	2	3	26	3	294786.8	
1973										17	1	3	1		3	25	7	8	2	8	23	10	4	16	11	23	18	13	26	23	32	15	8	68	679108.9	
1974												4	8	13	16	9	9	4	5	10	7	4	3	37	28	33	29	27	20	20	11	13	16	39	495113.3	

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	1	1826	100.0	9	2.10	20	1798	98.5	18	45.0	60	1314	72.0	27	950	81	489	26.7					
1	0.10	0	1825	99.9	10	3.00	13	1778	97.4	19	63.0	110	1254	68.7	28	1300	90	408	22.3					
2	0.20	0	1825	99.9	11	4.20	22	1765	96.7	20	88.0	38	1144	62.7	29	1900	74	318	17.4					
3	0.30	1	1825	99.9	12	5.80	29	1743	95.5	21	120.0	72	1106	60.6	30	2600	49	244	13.3					
4	0.40	0	1824	99.9	13	8.20	66	1714	93.9	22	170.0	130	1034	56.6	31	3700	54	195	10.6					
5	0.50	0	1824	99.9	14	12.00	82	1648	90.3	23	240.0	98	904	49.5	32	5200	138	141	7.7					
6	0.80	1	1824	99.9	15	16.00	82	1566	85.8	24	340.0	127	806	44.1	33	7200	3	3	.1					
7	1.10	3	1823	99.8	16	23.00	66	1484	81.3	25	480.0	97	679	37.2	34									
8	1.50	22	1820	99.7	17	32.00	104	1418	77.7	26	670.0	93	582	31.9										

## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## LITTLE RIVER NEAR WRIGHT CITY, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1971	10.00 4	10.70 4	10.90 4	11.20 4	22.10 4	46.30 4	77.60 2	118.00 2	595.00 3	771.00 1
1972	0.08 1	0.43 1	1.41 1	7.82 3	13.60 3	36.70 2	170.00 4	139.00 3	312.00 2	879.00 2
1973	1.90 2	2.33 3	5.23 3	5.54 2	8.30 1	10.60 1	12.40 1	13.60 1	61.50 1	1040.00 3
1974	2.00 3	2.00 2	2.00 2	2.00 1	13.40 2	45.10 3	120.00 3	368.00 4	803.00 4	1610.00 4

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## LITTLE RIVER NEAR WRIGHT CITY, OKLAHOMA

YEAR	1		3		7		15		30		60		90		120		183		ANNUAL	
1970	5690.0	4	5640.0	4	4730.0	4	3780.0	4	2580.0	4	2010.0	4	1870.0	3	1520.0	4	1070.0	4	613.0	5
1971	4670.0	5	4350.0	5	4130.0	5	3720.0	5	2550.0	5	1560.0	5	1170.0	5	1070.0	5	943.0	5	653.0	4
1972	7640.0	1	7220.0	1	7100.0	1	6920.0	1	5790.0	1	3360.0	2	2590.0	2	2040.0	2	1420.0	3	805.0	3
1973	7110.0	2	40.0	2	6650.0	3	6290.0	2	5050.0	2	4240.0	1	3860.0	1	3670.0	1	2870.0	1	1860.0	1
1974	6940.0	3	6810.0	3	6780.0	2	5680.0	3	3270.0	3	2210.0	3	1680.0	4	1690.0	3	1540.0	2	1360.0	2

## RED RIVER BASIN

07337900 GLOVER CREEK NEAR GLOVER, OKLA.

LOCATION.--Lat 34°05'51", long 94°54'07", in NW 1/4 NE 1/4 sec.28, T.5 S., R.23 E., McCurtain County, near right bank on downstream side of pier of bridge on State Highways 3 and 7, 2.0 mi (3.2 km) north of Glover, 11.0 mi (17.7 km) north-west of Broken Bow, and at mile 9.2 (14.8 km).

DRAINAGE AREA.--315 mi<sup>2</sup> (816 km<sup>2</sup>).

PERIOD OF RECORD.--October 1961 to September 1974.

AVERAGE DISCHARGE.--13 years (1962-74), 467 ft<sup>3</sup>/s (13.2 m<sup>3</sup>/s).

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

## GLOVER CREEK NEAR GLOVER, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS	
1962																																				157525.8
1963																																				79729.0
1964																																				85396.8
1965																																				153060.6
1966																																				92225.6
1967																																				87986.0
1968																																				295904.0
1969																																				219788.8
1970																																				130581.9
1971																																				121982.1
1972																																				154165.9
1973																																				357238.1
1974																																				280904.0

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	90	4748	100.0	9	1.40	129	4368	92.0	18	53.0	330	2868	60.4	27	2000	82	225	4.7	28	3000	63	143	3.0
1	0.06	1	4658	98.1	10	2.10	130	4239	89.3	19	80.0	314	2538	53.5	28	3000	63	143	3.0	29	4500	31	80	1.6
2	0.08	1	4657	98.1	11	3.20	110	4109	86.5	20	120.0	396	2224	46.8	29	4500	31	80	1.6	30	6700	31	49	1.0
3	0.10	9	4656	98.1	12	4.80	129	3999	84.2	21	180.0	402	1828	38.5	30	6700	31	49	1.0	31	10000	8	18	.3
4	0.20	27	4647	97.9	13	7.10	133	3870	81.5	22	270.0	390	1426	30.0	31	10000	8	18	.3	32	15000	7	10	.2
5	0.30	23	4620	97.3	14	11.00	148	3737	78.7	23	400.0	315	1036	21.8	32	15000	7	10	.2	33	22000	1	3	.0
6	0.40	76	4597	96.8	15	16.00	220	3589	75.6	24	600.0	207	721	15.2	33	22000	1	3	.0	34	33000	2	2	.0
7	0.60	94	4521	95.2	16	24.00	217	3369	71.0	25	890.0	160	514	10.8	34	33000	2	2	.0					
8	1.00	59	4427	93.2	17	36.00	284	3152	66.4	26	1300.0	129	354	7.5										

## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## GLOVER CREEK NEAR GLOVER, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1963	1.60 10	1.67 10	2.00 10	2.19 9	6.56 9	6.73 8	26.40 8	31.50 6	128.00 7	274.00 4
1964	0.10 5	0.20 6	0.20 5	0.23 3	0.31 3	0.41 2	0.75 2	1.35 2	3.12 1	129.00 1
1965	0.20 8	0.23 7	0.33 7	0.50 6	1.63 6	5.55 7	12.10 5	70.00 10	132.00 8	429.00 7
1966	0.10 6	0.10 4	0.16 4	0.71 8	3.17 8	4.79 6	22.10 7	44.80 7	61.10 5	234.00 3
1967	0.00 1	0.00 1	0.06 3	0.49 5	0.75 4	1.40 4	3.02 4	15.40 4	30.10 3	199.00 2
1968	0.31 9	0.31 9	0.43 8	0.56 7	1.64 7	24.50 10	40.10 10	66.00 9	157.00 9	621.00 9
1969	0.00 2	0.23 8	1.51 9	3.49 10	7.82 10	13.70 9	19.50 6	26.90 5	89.50 6	836.00 12
1970	0.20 7	0.20 5	0.24 6	0.39 4	0.88 5	0.98 3	1.29 3	5.44 3	45.80 4	397.00 6
1971	0.00 3	0.00 2	0.00 1	0.00 1	0.27 2	4.72 5	31.20 9	49.80 8	220.00 11	360.00 5
1972	4.20 12	5.00 12	7.33 12	10.50 12	14.50 12	68.30 12	129.00 12	122.00 12	196.00 10	484.00 8
1973	0.00 4	0.00 3	0.00 2	0.00 2	0.00 1	0.00 1	0.40 1	1.09 1	24.50 2	645.00 10
1974	3.30 11	4.03 11	4.11 11	5.40 11	9.29 11	39.70 11	69.10 11	121.00 11	328.00 12	717.00 11

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## GLOVER CREEK NEAR GLOVER, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1962	9720.0 10	6160.0 8	3060.0 11	1610.0 11	1600.0 8	1030.0 9	962.0 7	853.0 6	808.0 5	432.0 5
1963	4420.0 13	3390.0 13	1850.0 13	978.0 13	589.0 13	514.0 13	417.0 13	364.0 13	332.0 13	218.0 13
1964	8370.0 11	4860.0 12	3090.0 10	1640.0 10	1060.0 12	922.0 10	687.0 11	539.0 11	379.0 12	233.0 12
1965	16000.0 6	8280.0 6	4260.0 7	2170.0 7	1640.0 6	1090.0 8	853.0 8	790.0 8	702.0 7	419.0 7
1966	7860.0 12	5450.0 10	4860.0 5	3000.0 5	1630.0 7	842.0 11	780.0 10	632.0 10	440.0 11	253.0 10
1967	10100.0 8	4940.0 11	2500.0 12	1600.0 12	1460.0 10	1120.0 7	816.0 9	638.0 9	441.0 10	241.0 11
1968	16500.0 5	9900.0 4	6850.0 3	4580.0 3	3180.0 2	2720.0 1	2180.0 1	1930.0 1	1470.0 2	808.0 2
1969	19400.0 4	8790.0 5	4580.0 6	2400.0 6	2130.0 5	1450.0 4	1400.0 4	1250.0 3	1050.0 3	602.0 4
1970	10100.0 9	5700.0 9	3520.0 8	2140.0 8	1530.0 9	1160.0 6	1040.0 5	852.0 7	665.0 8	358.0 8
1971	14000.0 7	6180.0 7	3470.0 9	1780.0 9	1200.0 11	713.0 12	546.0 12	510.0 12	468.0 9	334.0 9
1972	53100.0 1	27200.0 1	12700.0 1	6630.0 1	3490.0 1	1960.0 3	1420.0 3	1110.0 4	773.0 6	421.0 6
1973	33400.0 2	16400.0 2	8360.0 2	4630.0 2	2820.0 3	2120.0 2	1830.0 2	1750.0 2	1480.0 1	979.0 1
1974	21800.0 3	11200.0 3	5740.0 4	3520.0 4	2690.0 4	1420.0 5	1020.0 6	900.0 5	852.0 4	770.0 3

## STATISTICS OF ANNUAL DISCHARGE FOR WATER YEARS, 1962-74

Units of annual Discharge	Mean	Standard Deviation	Coefficient of Variation	Skew Coefficient	First Order Serial Correlation Coefficient
CFS	467	248	0.53	0.98	0.36
LOGS of CFS	2.617	0.219		0.378	0.353

## RED RIVER BASIN

391

07338000 LITTLE RIVER NEAR IDABEL, OKLA.

LOCATION.--Lat 33°56'08", long 94°49'34", in NE 1/4 sec.19, T.7 S., R.24 E., at former bridge on U.S. Highway 70, 3.0 mi (4.8 km) north of Idabel, 7.8 mi (12.6 km) upstream from Lukfata Creek, 16.5 (26.5 km) downstream from Glover Creek, and at mile 111.4 (179 km).

DRAINAGE AREA.--1,173 mi<sup>2</sup> (3,038 km<sup>2</sup>).

PERIOD OF RECORD.--October 1929 to September 1946.

AVERAGE DISCHARGE.--17 years (1930-46), 1,632 ft<sup>3</sup>/s (46.2 m<sup>3</sup>/s).

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

## LITTLE RIVER NEAR IDABEL, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34			
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS			
1930	2				8			7	5	7	12	20	11	4	12	19	8	6	6	22	21	35	40	42	26	12	9	8	7	13	3				630438.0			
1931								7	4	11	12	10	26	19	22	18	35	30	16	20	18	31	17	17	20	12	7	11	2						281184.0			
1932								2	12	15	5	3	11	7	1	9	15	8	12	54	25	56	19	18	42	10	28	5	5	2	2				763324.0			
1933					1			2	9	23	18	19	20	13	5	23	23	12	10	14	12	38	42	24	22	12	10	11	1	1				499023.0				
1934					64			2	10	3	3	4	10	7	7	9	8	13	23	33	25	40	34	25	16	11	9	5	1	1	2				327270.0			
1935								6	7	8	24	15	25	18	10	5	4	14	16	28	25	53	21	13	16	17	11	18	8	2	1				1070007.0			
1936	22				3			5	4	2	5	3	13	16	16	19	36	17	20	21	68	22	24	18	10	5	7	6	2	1	1				269712.0			
1937											6	5	8	10	7	7	18	23	35	16	29	29	42	28	24	31	17	17	12	1				575215.7				
1938								1	4	5	7	9	8	11	16	12	13	14	12	15	22	26	31	41	21	28	17	14	12	10	7	3	2		2	820291.4		
1939	6	3			1			17	9	9	17	4	11	13	19	22	13	17	24	30	24	22	26	24	20	8	5	8	9	3	1	1			416578.8			
1940						2	4	2	22	8	4	11	8				10	15	36	48	33	58	24	26	10	6	10	4	12	10	3				371429.8			
1941														4	8	26	22	30	26	20	13	10	31	45	36	25	22	12	17	15	3				607386.0			
1942														5	10	18	26	28	17	23	30	52	34	34	32	26	12	8	7	1	2				518810.0			
1943														1	20	18	10	9	13	19	12	11	12	7	25	36	35	31	32	26	16	14	4	6	3	4	1	345744.8
1944														9	12	34	21	19	14	19	13	13	9	11	23	29	31	42	16	20	18	7	4	1	1	614474.3		
1945														9	15	4	9	1	7	8	12	12	8	25	30	34	29	32	22	22	24	14	13	7	3	3	1233777.0	
1946														2	5	6	21	15	19	9	14	10	9	32	23	36	32	29	19	13	17	28	15	9	2	781962.0		

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	30	6209	100.0	9	3.70	103	5963	96.0	18	140.0	303	4105	66.1	27	5500	235	514	8.2
1	0.10	3	6179	99.5	10	5.50	152	5860	94.4	19	210.0	371	3802	61.2	28	8300	141	279	4.4
2	0.20	1	6176	99.5	11	8.30	127	5708	91.9	20	320.0	492	3431	55.3	29	12000	87	138	2.2
3	0.30	0	6175	99.5	12	12.00	225	5581	89.9	21	480.0	506	2939	47.3	30	19000	34	51	.8
4	0.50	1	6175	99.5	13	19.00	200	5356	86.3	22	720.0	570	2433	39.2	31	28000	11	17	.2
5	0.70	78	6174	99.4	14	28.00	233	5156	83.0	23	1100.0	487	1863	30.0	32	42000	4	6	.0
6	1.10	5	6096	98.2	15	42.00	223	4923	79.3	24	1600.0	369	1376	22.2	33	63000	2	2	.0
7	1.60	45	6091	98.1	16	63.00	302	4700	75.7	25	2400.0	296	1007	16.2	34				
8	2.40	83	6046	97.4	17	95.00	293	4398	70.8	26	3700.0	197	711	11.5					



## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## LITTLE RIVER NEAR IDABEL, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1931	0.00 1	0.33 3	0.71 3	2.50 5	3.97 5	5.95 4	11.70 5	30.40 6	106.00 4	1460.00 9
1932	2.00 9	2.00 6	2.29 6	3.07 7	6.97 9	26.60 9	29.50 7	46.50 8	184.00 6	1730.00 11
1933	1.00 5	2.33 9	3.86 9	4.21 8	5.40 7	6.37 5	8.46 3	12.30 1	557.00 13	1340.00 6
1934	7.00 12	7.67 12	9.00 12	11.50 12	17.10 10	51.60 11	158.00 13	348.00 13	371.00 9	1030.00 2
1935	1.00 6	1.00 5	1.00 4	1.00 3	1.00 1	1.00 1	6.13 2	72.60 9	88.10 3	1510.00 10
1936	5.00 11	5.33 11	7.00 11	10.30 11	20.10 12	30.40 10	41.70 10	107.00 10	893.00 14	2380.00 14
1937	0.00 2	0.00 1	0.00 1	0.00 1	1.10 2	6.77 6	31.70 9	38.70 7	355.00 8	1230.00 4
1938	1.90 7	2.10 7	2.57 8	5.94 10	19.50 11	72.10 13	381.00 15	367.00 14	494.00 11	2140.00 13
1939	0.00 3	0.00 2	0.01 2	0.50 2	2.46 4	10.40 7	12.80 6	21.50 4	61.40 2	1200.00 3
1940	0.90 4	0.97 4	1.20 5	1.45 4	2.16 3	3.09 2	5.22 1	13.20 2	41.90 1	658.00 1
1941	26.00 15	26.70 15	28.00 15	33.40 15	55.40 15	128.00 15	324.00 14	404.00 15	935.00 16	1820.00 12
1942	15.00 13	16.00 13	18.00 13	23.20 14	34.30 14	51.80 12	104.00 11	136.00 12	507.00 12	1380.00 7
1943	17.00 14	17.30 14	19.30 14	21.50 13	32.00 13	89.30 14	126.00 12	119.00 11	414.00 10	1330.00 5
1944	2.00 8	2.33 8	2.49 7	2.99 6	4.59 6	5.36 3	9.01 4	19.00 3	124.00 5	1390.00 8
1945	4.00 10	4.00 10	4.29 10	5.00 9	6.50 8	17.80 8	31.40 8	29.20 5	314.00 7	2730.00 16
1946	29.00 16	31.00 16	35.70 16	44.00 16	102.00 16	304.00 16	523.00 16	935.00 16	901.00 15	2570.00 15

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## LITTLE RIVER NEAR IDABEL, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1930	24100.0 10	18600.0 9	16500.0 5	13400.0 4	9510.0 5	4940.0 7	3770.0 8	3320.0 7	3160.0 7	1730.0 6
1931	10400.0 17	9120.0 17	6740.0 17	4940.0 16	3910.0 15	2900.0 15	2230.0 15	1760.0 15	1450.0 16	770.0 16
1932	39400.0 4	27000.0 4	16700.0 4	12100.0 5	9740.0 4	7290.0 3	5630.0 4	4470.0 5	3300.0 5	2090.0 5
1933	21600.0 11	15900.0 12	9450.0 14	5750.0 15	4410.0 14	3190.0 13	3250.0 10	2940.0 10	2490.0 10	1370.0 11
1934	27000.0 8	22500.0 8	13000.0 9	7540.0 11	4690.0 13	3060.0 14	2240.0 14	2120.0 14	1610.0 14	897.0 15
1935	48200.0 3	31900.0 3	24600.0 3	14700.0 2	12200.0 2	9820.0 2	7270.0 2	6870.0 2	5350.0 2	2930.0 2
1936	26400.0 9	18200.0 10	11300.0 10	6420.0 14	3670.0 16	2520.0 17	1820.0 17	1460.0 17	1150.0 17	737.0 17
1937	12000.0 16	10800.0 16	9040.0 15	7020.0 13	5640.0 10	3890.0 12	3020.0 13	3070.0 9	2540.0 9	1580.0 9
1938	64500.0 1	50500.0 1	27000.0 1	13800.0 3	11400.0 3	6760.0 4	6660.0 3	5380.0 3	4160.0 3	2250.0 3
1939	30600.0 6	24100.0 6	14100.0 8	8880.0 6	6550.0 6	4970.0 6	3910.0 7	3140.0 8	2210.0 12	1140.0 12
1940	16900.0 14	14100.0 13	11300.0 11	8730.0 8	5490.0 12	4040.0 11	3170.0 11	2530.0 13	1860.0 13	1010.0 13
1941	13500.0 15	12000.0 15	10700.0 13	8730.0 9	5860.0 9	4060.0 10	3040.0 12	2690.0 12	2780.0 8	1660.0 8
1942	27000.0 7	23100.0 7	14200.0 7	7510.0 12	5600.0 11	4200.0 9	3450.0 9	2860.0 11	2290.0 11	1420.0 10
1943	20400.0 12	14100.0 14	8120.0 16	4470.0 17	3600.0 17	2540.0 16	2090.0 16	1650.0 16	1570.0 15	947.0 14
1944	33500.0 5	24200.0 5	15100.0 6	8280.0 10	6150.0 7	4720.0 8	4950.0 5	4210.0 6	3210.0 6	1680.0 7
1945	61600.0 2	47100.0 2	25300.0 2	19600.0 1	13500.0 1	11000.0 1	8780.0 1	7910.0 1	5830.0 1	3380.0 1
1946	20100.0 13	15900.0 11	10800.0 12	8750.0 7	6010.0 8	5410.0 5	4420.0 6	4670.0 4	3840.0 4	2140.0 4

## STATISTICS OF ANNUAL DISCHARGE FOR WATER YEARS, 1939-46

Units of annual Discharge	Mean	Standard Deviation	Coefficient of Variation	Skew Coefficient	First Order Serial Correlation Coefficient
CFS	1,631	746	0.46	0.95	-0.16
LOGS of CFS	3.171	0.195		0.096	-0.268

## 393

LOCATION.--Lat 33°56'28", long 94°45'30", in SE 1/4 SE 1/4 sec.14, T.7 S., R.24 E., McCurtain County, on left bank at downstream side of bridge on U.S. Highway 70 just downstream from Lukfata Creek, 5.0 mi (8.0 km) northeast of Idabel, and at mile 103.4 (166.4 km).

PERIOD OF RECORD.--October 1946 to September 1974. Statistical summaries for this station are divided into unregulated and regulated periods.

REMARKS.--Flow regulated since June 1969 by Pine Creek Lake 41.9 miles (67.4 km) upstream.

## LITTLE RIVER BELOW LOOKATA CREEK NEAR IDABEL, OKLAHOMA

[illegible]

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## LITTLE RIVER BELOW LUKATA CREEK NEAR IDABEL, OKLAHOMA

YEAR	1	5	7	14	30	60	90	120	183	ANNUAL
1948	10.00 9	10.00 9	10.00 9	10.90 9	14.00 8	31.40 9	71.60 10	72.10 7	159.00 6	1940.00 17
1949	6.00 6	6.55 6	7.11 6	7.70 6	8.93 6	14.50 5	23.50 5	25.00 4	45.40 2	1810.00 15
1950	32.00 17	33.00 17	36.90 17	42.60 17	68.10 17	193.00 20	247.00 20	296.00 16	589.00 14	2490.00 20
1951	59.00 21	61.70 21	65.70 21	86.50 21	123.00 19	168.00 19	213.00 18	381.00 18	1560.00 22	2390.00 19
1952	19.00 14	19.70 15	20.90 14	26.80 14	40.60 13	78.00 14	101.00 11	442.00 19	827.00 19	1770.00 13
1953	4.20 5	4.35 4	4.75 5	5.41 4	6.84 5	9.21 4	12.40 4	18.40 3	115.00 5	1440.00 10
1954	11.00 10	11.30 11	11.90 11	13.00 11	15.60 9	19.60 8	31.20 7	58.20 5	489.00 12	1780.00 14
1955	2.30 2	2.50 2	2.64 2	3.25 2	3.59 2	4.68 2	9.39 2	80.60 8	879.00 20	1550.00 12
1956	13.00 12	14.70 12	18.30 13	23.90 13	41.80 14	45.50 12	66.50 9	146.00 9	410.00 10	847.00 4
1957	0.40 1	0.40 1	0.40 1	0.44 1	0.51 1	0.64 1	1.01 1	3.61 1	40.60 3	973.00 5
1958	19.00 15	19.00 14	22.50 15	36.90 15	59.10 16	77.40 13	128.00 12	656.00 22	1300.00 21	3160.00 21
1959	45.00 20	44.70 20	47.40 20	69.20 20	134.00 21	200.00 21	242.00 19	258.00 14	359.00 8	1270.00 7
1960	42.00 18	43.00 19	45.40 19	49.70 18	130.00 20	154.00 18	448.00 21	531.00 20	788.00 18	1410.00 8
1961	42.00 19	42.70 18	44.90 18	51.40 19	75.40 18	124.00 17	131.00 13	282.00 15	449.00 11	1510.00 11
1962	66.00 22	68.70 22	75.70 22	102.00 22	163.00 22	305.00 22	493.00 22	645.00 21	689.00 16	1890.00 16
1963	14.00 13	14.70 13	14.90 12	16.90 12	25.10 11	33.20 10	145.00 15	171.00 10	558.00 13	1070.00 6
1964	4.20 3	4.20 3	4.20 3	4.44 3	5.26 3	6.26 3	9.66 3	14.20 2	25.30 1	427.00 1
1965	4.20 4	4.55 5	4.69 4	5.78 5	6.56 4	16.10 7	64.70 8	219.00 12	370.00 9	1420.00 9
1966	6.10 7	6.60 7	7.31 7	10.20 8	28.40 12	40.40 11	131.00 14	220.00 13	239.00 7	778.00 3
1967	7.10 8	7.50 8	7.70 8	9.12 7	12.50 7	16.80 6	29.10 6	69.40 6	112.00 4	692.00 2
1968	11.00 11	11.00 10	11.10 10	11.90 10	16.80 10	97.70 15	211.00 17	353.00 17	579.00 15	2230.00 18
1969	27.00 16	28.00 16	32.10 16	41.10 16	52.10 15	101.00 16	171.00 16	201.00 11	692.00 17	3220.00 22

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## LITTLE RIVER BELOW LUKATA CREEK NEAR IDABEL, OKLAHOMA

YEAR	1	5	7	15	30	60	90	120	183	ANNUAL
1947	50200.0 2	54000.0 3	20900.0 4	10500.0 9	8300.0 8	5570.0 7	4150.0 9	3180.0 10	3250.0 8	2070.0 5
1948	21100.0 13	17600.0 14	12500.0 15	7730.0 14	5240.0 13	3430.0 15	3540.0 11	3130.0 11	2900.0 10	1560.0 13
1949	72600.0 1	50400.0 1	32800.0 1	17500.0 1	10600.0 2	6610.0 5	5760.0 4	5270.0 3	3880.0 5	2030.0 6
1950	50000.0 3	38300.0 2	22300.0 3	10200.0 4	9090.0 6	8810.0 2	6410.0 3	5140.0 4	4510.0 3	3490.0 1
1951	31900.0 8	24000.0 9	16500.0 10	10600.0 8	9200.0 5	4890.0 10	4000.0 10	3250.0 9	3200.0 9	1710.0 10
1952	33900.0 7	28300.0 6	17900.0 9	13900.0 5	8720.0 7	5710.0 6	4220.0 7	3470.0 8	2880.0 11	1570.0 12
1953	31400.0 9	22700.0 10	16000.0 11	10300.0 10	9500.0 4	6970.0 4	5630.0 5	4540.0 5	3580.0 6	2000.0 7
1954	4860.0 21	2650.0 21	6580.0 21	5480.0 19	3940.0 20	2850.0 19	1970.0 20	1980.0 20	1700.0 17	875.0 20
1955	14500.0 18	13300.0 17	9790.0 17	5740.0 17	4400.0 19	2770.0 20	2330.0 19	2170.0 18	2130.0 16	1440.0 15
1956	12000.0 20	11100.0 20	7690.0 20	5060.0 21	3820.0 21	2350.0 21	1820.0 21	1720.0 21	1170.0 23	666.0 23
1957	28600.0 10	27200.0 8	22800.0 2	17200.0 2	11600.0 1	9470.0 1	8410.0 1	6880.0 2	5110.0 2	2800.0 3
1958	37600.0 6	27700.0 7	18000.0 6	11200.0 7	6840.0 10	5300.0 9	4200.0 8	3850.0 7	3390.0 7	1930.0 8
1959	6560.0 23	7800.0 23	6280.0 22	4330.0 22	2500.0 22	1730.0 23	1390.0 23	1240.0 23	1270.0 21	910.0 18
1960	46300.0 4	32400.0 4	18200.0 7	9260.0 11	5930.0 12	3750.0 13	2990.0 13	2560.0 14	2760.0 12	1730.0 9
1961	40800.0 5	31100.0 5	18100.0 8	9070.0 12	4900.0 16	3990.0 12	3430.0 12	2730.0 13	2620.0 14	1600.0 11
1962	14100.0 19	12800.0 19	8760.0 18	5300.0 20	4790.0 17	3080.0 16	2960.0 14	2740.0 12	2680.0 13	1500.0 14
1963	9180.0 22	6180.0 22	5060.0 23	3310.0 23	2140.0 23	1760.0 22	1510.0 22	1280.0 22	1240.0 22	808.0 22
1964	14700.0 17	13400.0 16	12100.0 16	8990.0 15	4590.0 14	3540.0 14	2670.0 16	2400.0 19	1420.0 20	826.0 21
1965	24200.0 11	19400.0 12	13100.0 14	8800.0 16	4970.0 15	3410.0 16	2740.0 17	2460.0 15	2130.0 15	1280.0 16
1966	18600.0 15	16800.0 15	16300.0 12	11300.0 8	6150.0 11	3180.0 17	2910.0 15	2360.0 16	1660.0 18	918.0 17
1967	14800.0 16	13200.0 18	8360.0 19	5550.0 18	5270.0 14	4030.0 11	2890.0 16	2300.0 17	1630.0 19	905.0 19
1968	23600.0 12	21700.0 11	19500.0 5	14700.0 3	10300.0 3	8750.0 3	8200.0 2	6960.0 1	5540.0 1	3060.0 2
1969	20900.0 14	16900.0 13	14200.0 13	8330.0 13	7330.0 9	5350.0 8	4650.0 6	4380.0 6	3970.0 4	2180.0 4

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

LITTLE RIVER BLW LUKFATA CRK NR IDABEL, OKLA.

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS	
1970						13	6	2	5	17	6	32	39	27	14	16	32	18	15	10	17	10	7	17	11	13	10	18	7	3						428502.0
1971						5	17	10	10	8	6	9	18	27	28	29	26	27	26	30	20	12	19	20	11	3	1	3								401801.0
1972	2	16	26	19	22	24	13	12	16	19	11	5	13	6	28	19	19	12	18	8	4	9	1	5	6	29		1			1	1	1	1		573451.0
1973	5	9	4	2	5	7	10	11	4	12	5	9	14	3	6	15	21	22	12	20	7	17	11	14	20	67	22	8	2	1						1249801.2
1974						2	8	5	19	11	7	6	9	5	3	31	22	18	18	45	18	18	17	15	16	20	30	12	8							918401.0

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	1826	100.0	9	74.00	71	1514	82.9	18	800.0	95	796	43.6	27	8600	40	63	3.4					
1	4.00	7	1826	100.0	10	97.00	83	1443	79.0	19	1000.0	115	701	38.4	28	11000	17	23	1.2					
2	12.00	25	1819	99.6	11	130.00	58	1360	74.5	20	1400.0	73	586	32.1	29	15000	2	6	.3					
3	15.00	43	1794	98.2	12	160.00	55	1302	71.3	21	1800.0	58	513	28.1	30	19000	1	4	.2					
4	20.00	27	1751	95.9	13	210.00	75	1247	68.3	22	2300.0	73	455	24.9	31	25000	1	3	.1					
5	26.00	36	1724	94.4	14	280.00	72	1172	64.2	23	3000.0	60	382	20.9	32	32000		2	.1					
6	34.00	61	1688	92.4	15	360.00	112	1100	60.2	24	3900.0	58	322	17.6	33	42000	1	2	.1					
7	44.00	55	1627	89.1	16	470.00	97	988	54.1	25	5100.0	67	264	14.5	34	55000	1	1	.0					
8	57.00	58	1572	86.1	17	610.00	95	841	48.8	26	6600.0	134	197	10.8										

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

LITTLE RIVER BLW LUKFATA CRK NR IDABEL, OKLA.

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL								
1971	16.00	2	16.00	2	16.70	2	31.10	2	64.20	2	148.00	2	202.00	2	913.00	3	1280.00	1
1972	26.00	3	27.70	3	33.70	3	45.60	3	53.10	3	193.00	4	352.00	4	281.00	3	548.00	2
1973	9.00	1	9.73	1	11.30	1	11.70	1	16.10	1	18.90	1	20.40	1	24.70	1	177.00	1
1974	30.00	4	32.00	4	37.70	4	50.40	4	64.10	4	143.00	3	252.00	3	558.00	4	1370.00	4

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

LITTLE RIVER BLW LUKFATA CRK NR IDABEL, OKLA.

YEAR	1		3		7		15		30		60		90		120		183		ANNUAL
1970	10700.0	4	9220.0	5	6860.0	5	6210.0	4	4830.0	4	3530.0	4	3440.0	3	2850.0	4	2110.0	4	1170.0
1971	10100.0	5	9360.0	4	6910.0	4	5210.0	5	3660.0	5	2360.0	5	1820.0	5	1700.0	5	1580.0	5	1100.0
1972	66800.0	1	49100.0	1	26200.0	1	16100.0	1	11900.0	1	6970.0	2	5210.0	2	4110.0	2	2840.0	2	1570.0
1973	21700.0	2	18500.0	2	12100.0	2	10200.0	2	8060.0	2	7250.0	1	6720.0	1	6550.0	1	5150.0	1	3420.0
1974	14600.0	3	13600.0	3	10400.0	3	9470.0	3	6990.0	3	3920.0	3	3000.0	4	2970.0	3	2830.0	3	2520.0





LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## MOUNTAIN FORK RIVER NEAR EAGLETOWN, OKLAHOMA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1925	1,00 16	1,33 15	1,57 16	1,79 15	3,90 16	7,33 14	10,40 10	9,52 5	35,40 2	412,00 2
1931	0,00 1	0,00 1	0,00 1	0,00 1	0,13 9	1,70 8	5,03 6	17,80 7	117,00 10	1140,00 15
1932	14,00 30	14,00 29	14,60 29	16,70 27	34,80 27	99,10 30	151,00 28	265,00 29	336,00 17	1530,00 28
1933	3,00 19	3,33 19	3,86 19	4,43 19	9,53 18	14,90 17	19,00 13	38,70 13	528,00 24	1230,00 19
1934	9,00 27	9,67 27	11,70 28	17,20 28	46,80 30	67,50 27	129,00 25	244,00 26	358,00 18	836,00 7
1935	0,00 2	0,00 2	0,00 2	0,00 2	0,00 1	0,18 5	6,38 8	54,60 15	94,60 9	1210,00 17
1936	5,00 21	5,00 21	6,14 21	8,50 22	12,20 20	19,00 19	47,90 17	98,40 17	718,00 32	1690,00 31
1937	0,00 3	0,00 3	0,00 3	0,00 3	0,00 2	1,22 6	57,00 19	54,70 16	239,00 14	1060,00 11
1938	3,00 20	3,67 20	4,43 20	7,21 20	12,30 21	51,10 25	277,00 34	507,00 35	680,00 31	1960,00 33
1939	0,00 4	0,00 4	0,00 4	0,01 10	0,31 10	2,72 10	5,68 7	13,00 6	53,00 5	956,00 10
1940	0,10 12	0,13 12	0,29 12	0,66 12	3,39 15	16,90 18	16,90 12	37,80 12	86,80 7	694,00 3
1941	10,00 28	10,00 28	11,60 27	14,10 25	19,70 23	31,10 21	160,00 29	405,00 33	883,00 35	1470,00 26
1942	14,00 29	14,70 30	15,70 30	20,00 30	35,30 28	48,90 23	99,20 23	241,00 25	559,00 27	1230,00 18
1943	7,00 24	9,13 24	10,90 25	13,90 24	22,00 24	113,00 31	141,00 26	126,00 19	325,00 16	896,00 9
1944	0,00 5	0,00 5	0,00 5	0,00 4	0,00 3	0,00 1	0,58 2	7,81 4	89,20 8	1070,00 12
1945	0,10 13	0,10 11	0,14 11	0,19 11	0,84 11	6,72 13	23,20 15	22,10 10	192,00 13	2250,00 37
1946	47,00 36	49,30 36	55,90 36	86,90 37	143,00 37	363,00 37	344,00 35	1140,00 37	975,00 37	2050,00 35
1947	1,40 17	1,47 16	1,54 15	1,91 16	2,98 13	5,42 12	9,61 9	19,90 9	630,00 30	1500,00 27
1948	0,20 14	0,27 13	0,47 13	0,79 14	3,16 14	23,10 20	77,00 21	671,00 36	724,00 33	1840,00 32
1949	3,00 18	3,07 18	3,09 18	3,51 17	4,62 17	8,74 15	28,20 16	42,40 14	62,10 6	1320,00 22
1950	28,00 33	28,70 33	30,90 31	35,10 31	71,80 32	86,40 29	194,00 32	263,00 28	479,00 23	2020,00 34
1951	62,00 37	63,70 37	65,40 37	69,40 36	80,80 33	118,00 33	162,00 31	272,00 30	821,00 34	1620,00 30
1952	8,60 26	9,33 26	10,70 24	17,60 29	34,10 26	114,00 32	141,00 27	391,00 32	897,00 36	1310,00 21
1953	0,00 6	0,00 6	0,00 6	0,00 5	0,00 4	0,00 2	0,11 1	1,59 1	51,60 4	1430,00 24
1954	0,40 15	0,43 14	0,51 14	0,76 13	1,55 12	4,50 11	11,60 11	33,10 11	439,00 21	1410,00 23
1955	0,00 7	0,00 7	0,00 7	0,00 6	0,00 5	0,01 4	1,35 3	18,00 8	579,00 29	1130,00 14
1956	8,40 25	9,13 25	11,30 26	16,60 26	35,30 29	62,50 26	54,70 18	143,00 20	166,00 11	733,00 4
1957	0,00 8	0,00 8	0,00 8	0,00 7	0,04 8	2,19 9	2,03 5	3,78 2	41,50 3	798,00 6
1958	6,10 23	7,23 23	8,27 23	11,10 23	27,20 25	49,40 24	77,90 22	213,00 23	570,00 28	2080,00 36
1959	25,00 31	27,70 31	32,10 34	49,20 34	103,00 34	162,00 35	206,00 33	254,00 27	391,00 20	1260,00 20
1960	29,00 34	29,70 34	31,30 33	35,50 32	123,00 35	135,00 34	412,00 37	377,00 31	544,00 26	1200,00 16
1961	27,00 32	28,30 32	31,10 32	39,90 33	55,40 31	78,00 28	117,00 24	237,00 24	531,00 25	1560,00 29
1962	34,00 35	40,30 35	51,70 35	66,60 35	128,00 36	272,00 36	380,00 36	463,00 34	459,00 22	1470,00 25
1963	6,00 22	6,20 22	6,66 22	7,24 21	13,10 22	32,00 22	68,50 20	104,00 18	375,00 19	737,00 5
1964	0,00 9	0,00 9	0,00 9	0,00 8	0,00 6	0,00 3	1,56 4	6,48 3	13,20 1	374,00 1
1965	0,00 10	0,00 10	0,00 10	0,00 9	0,00 7	1,67 7	19,20 14	150,00 21	306,00 15	1090,00 13
1966	0,00 11	1,67 17	2,59 17	4,14 18	10,90 19	14,80 16	161,00 30	173,00 22	174,00 12	843,00 8

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## MOUNTAIN FORK RIVER NEAR EAGLETOWN, OKLAHOMA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1925	21600,0 24	13700,0 26	6460,0 33	3450,0 36	1790,0 38	1360,0 38	1010,0 38	934,0 38	751,0 38	415,0 38
1930	32900,0 15	17900,0 19	13300,0 9	9700,0 9	6550,0 10	3380,0 17	2590,0 21	2370,0 19	2290,0 16	1260,0 19
1931	17900,0 31	9870,0 34	5450,0 37	4090,0 34	3240,0 28	2370,0 28	1840,0 30	1550,0 32	1270,0 31	782,0 29
1932	35900,0 14	21900,0 15	11800,0 18	9840,0 8	8220,0 4	6000,0 5	4720,0 6	3760,0 8	2760,0 9	1700,0 8
1933	26900,0 21	16000,0 22	10300,0 20	6880,0 17	5130,0 18	3440,0 15	3150,0 15	2800,0 15	2260,0 17	1240,0 20
1934	13200,0 34	10700,0 32	6380,0 34	4790,0 27	3030,0 32	2090,0 32	1550,0 34	1480,0 33	1180,0 32	666,0 32
1935	46300,0 8	30200,0 5	16600,0 5	10600,0 7	7960,0 5	6360,0 4	5100,0 5	4730,0 2	3890,0 2	2210,0 3
1936	27900,0 20	13200,0 27	6920,0 31	4050,0 35	2520,0 35	2030,0 34	1440,0 35	1140,0 36	960,0 37	595,0 36
1937	17500,0 32	10600,0 33	8860,0 25	6660,0 21	5260,0 15	3650,0 14	2710,0 18	2500,0 17	2200,0 18	1450,0 13
1938	60200,0 2	39500,0 3	21500,0 3	11700,0 5	10100,0 2	5750,0 6	5400,0 3	4400,0 4	3320,0 5	1850,0 5
1939	41800,0 10	24900,0 9	12200,0 15	8770,0 12	5940,0 11	4730,0 9	3670,0 10	3010,0 12	2130,0 20	1100,0 24
1940	17000,0 33	13000,0 28	9350,0 23	6710,0 19	4260,0 22	3260,0 20	2750,0 17	2300,0 20	1780,0 25	1000,0 27
1941	12200,0 35	7800,0 37	6590,0 32	4720,0 30	3100,0 29	2220,0 30	1860,0 29	1730,0 29	1760,0 26	1050,0 26
1942	28500,0 18	18000,0 18	9460,0 22	4890,0 26	3760,0 26	2830,0 22	2490,0 23	2120,0 23	2050,0 21	1290,0 18
1943	20300,0 27	11900,0 30	6270,0 36	3420,0 37	2140,0 37	1620,0 36	1320,0 36	1270,0 35	1100,0 33	642,0 35
1944	32500,0 16	23300,0 12	13000,0 12	8660,0 18	5260,0 16	4150,0 13	4210,0 8	3650,0 10	2760,0 10	1460,0 12
1945	62100,0 1	44800,0 1	22200,0 1	16400,0 1	10900,0 1	8820,0 1	7000,0 1	6080,0 1	4420,0 1	2610,0 1
1946	50100,0 5	26600,0 8	13100,0 10	9330,0 11	5910,0 12	4360,0 11	3600,0 11	3730,0 9	3210,0 6	1830,0 6
1947	50300,0 4	26600,0 14	11800,0 16	6390,0 22	4780,0 19	3370,0 18	2500,0 22	1940,0 24	2050,0 22	1490,0 11
1948	49400,0 6	23500,0 10	11800,0 17	6210,0 23	5440,0 13	3370,0 19	3370,0 13	2970,0 13	2500,0 12	1390,0 16
1949	58200,0 3	40000,0 2	22000,0 2	12500,0 2	7310,0 8	4770,0 8	4100,0 9	3780,0 7	2980,0 8	1600,0 10
1950	45000,0 9	29800,0 6	14300,0 7	11700,0 6	7810,0 6	6830,0 2	5170,0 4	4170,0 5	3650,0 4	2540,0 2
1951	19500,0 28	16200,0 20	11400,0 19	6700,0 20	4240,0 23	2660,0 26	2280,0 25	1880,0 27	1970,0 23	1090,0 25
1952	40800,0 12	27200,0 7	13900,0 8	11800,0 4	7320,0 7	4680,0 10	3530,0 12	3070,0 11	2650,0 11	1420,0 14
1953	41200,0 11	21700,0 16	13100,0 11	9450,0 10	6960,0 9	5320,0 7	4430,0 7	3840,0 6	3060,0 7	1770,0 7
1954	21600,0 25	14500,0 24	8410,0 28	4770,0 29	3090,0 30	2070,0 33	1690,0 32	1890,0 26	1380,0 28	710,0 31
1955	19300,0 29	12300,0 29	7740,0 29	4420,0 32	3010,0 33	2400,0 27	2150,0 26	1920,0 25	1630,0 27	1110,0 23
1956	19000,0 30	11200,0 31	6320,0 35	4160,0 33	3750,0 27	2280,0 29	1700,0 31	1570,0 31	1050,0 35	576,0 37
1957	27900,0 19	23500,0 11	18800,0 4	12500,0 3	8390,0 3	6630,0 3	5950,0 2	4720,0 3	3730,0 3	2000,0 4
1958	36500,0 13	22900,0 13	12300,0 14	7980,0 13	5160,0 17	4260,0 12	3350,0 14	2890,0 14	2340,0 14	1390,0 15
1959	24100,0 22	16200,0 21	9780,0 21	5040,0 25	2850,0 34	1890,0 35	1550,0 33	1400,0 34	1370,0 29	895,0 28
1960	49200,0 7	32000,0 4	15000,0 6	7630,0 14	5320,0 14	3380,0 16	2640,0 19	2270,0 21	2460,0 13	1630,0 9
1961	32500,0 17	19000,0 17	12900,0 13	7390,0 16	4470,0 20	2890,0 21	2820,0 16	2560,0 16	2310,0 15	1340,0 17
1962	23800,0 23	14100,0 25	7370,0 30	4780,0 28	4070,0 24	2750,0 25	2630,0 20	2460,0 18	2170,0 19	1180,0 21
1963	8630,0 38	6790,0 38	4020,0 38	2850,0 38	2270,0 36	1590,0 37	1240,0 37	1070,0 37	1030,0 36	643,0 34
1964	20600,0 26	14700,0 23	8490,0 27	4600,0 31	3060,0 31	2810,0 23	2050,0 28	1610,0 30	1100,0 34	648,0 33
1965	9760,0 36	9510,0 35	8620,0 26	5710,0 24	4280,0 21	2780,0 24	2150,0 27	2120,0 22	1900,0 24	1180,0 22
1966	9720,0 37	9200,0 36	8950,0 24	7440,0 15	4050,0 25	2110,0 31	2300,0 24	1850,0 28	1340,0 30	761,0 30

## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

## MOUNTAIN FORK NEAR EAGLETOWN, OKLAHOMA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34		
YEAR	NUMBER OF DAYS IN CLASS																																		CF8_DAYS		
1967	36	16	13	21	19	9	8	4	4	7	10	9	7	18	20	25	11	16	12	6	16	6	9	4	7	4	5	2	7	4	9	7	8	5	1	295585.6	
1968				11	8	3	10	4	2	12	12	24	12	9	13	5	11	6	10	14	23	26	11	13	8	5	2	5	4	4	2	9	14	16	24	34	845385.0
1969	41	5	9	10	7	6	7	11	9	7	6	3	3	12	16	9	7	20	31	55	75	9	2	1	2	1										131182.0	
1970						1						1	5	8	9	14	15	25	23	22	12	19	24	19	28	20	10	19	18	9	24	40			432925.0		
1971																																				335322.0	
1972		1										4		7	11	45	66	46	9	16	10	9	15	15	14	13	18	7	15	7	8	8	2	1	17	2	371064.0
1973													3	1	25	23	16	10	11	5	11	7	16	9	19	27	13	22	16	18	14	25	15	15	42	2	900746.0
1974											1		7	23	25	17	20	11	11	17	11	20	11	18	31	16	17	16	21	18	19	16	11			637047.0	

CLASS	CF8	TOTAL	ACCUM	PERCT	CLASS	CF8	TOTAL	ACCUM	PERCT	CLASS	CF8	TOTAL	ACCUM	PERCT	CLASS	CF8	TOTAL	ACCUM	PERCT
0	0.00	77	2922	100.0	9	72.00	27	2635	90.2	18	400.0	118	1712	58.6	27	2200	62	539	18.4
1	16.00	22	2845	97.4	10	87.00	51	2608	89.3	19	480.0	161	1594	54.6	28	2600	87	477	16.3
2	19.00	33	2823	96.8	11	110.00	42	2557	87.5	20	580.0	206	1433	49.0	29	3200	86	390	13.3
3	23.00	39	2790	95.5	12	130.00	49	2515	86.1	21	700.0	126	1227	42.0	30	3800	66	304	10.4
4	28.00	30	2751	94.1	13	150.00	154	2466	84.4	22	840.0	115	1101	37.7	31	4600	53	238	8.1
5	34.00	25	2721	93.1	14	190.00	172	2312	79.1	23	1000.0	107	986	33.7	32	5600	67	185	6.3
6	41.00	19	2696	92.3	15	220.00	180	2140	73.2	24	1200.0	139	879	30.1	33	6700	81	118	4.0
7	50.00	17	2677	91.6	16	270.00	125	1960	67.1	25	1500.0	93	740	25.3	34	8100	37	37	1.2
8	60.00	25	2660	91.0	17	330.00	123	1835	62.8	26	1800.0	108	647	22.1					

## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## MOUNTAIN FORK NEAR EAGLETOWN, OKLAHOMA

YEAR	1		3		7		14		30		60		90		120		183		ANNUAL	
1968	8.60	2	10.50	2	13.10	2	15.80	2	20.50	2	116.00	2	120.00	2	295.00	3	510.00	4	1850.00	6
1969	0.21	1	0.28	1	0.60	1	1.90	1	6.05	1	22.50	1	38.80	1	49.40	1	77.10	1	1260.00	4
1970	12.00	3	16.30	3	30.00	3	120.00	3	199.00	4	296.00	5	307.00	4	354.00	4	414.00	3	889.00	1
1971	158.00	7	165.00	7	231.00	6	300.00	6	360.00	6	400.00	6	678.00	7	721.00	7	692.00	6	1060.00	2
1972	16.00	4	130.00	5	165.00	5	174.00	5	218.00	5	248.00	4	320.00	5	411.00	5	533.00	5	1210.00	3
1973	88.00	5	122.00	4	143.00	4	156.00	4	190.00	3	208.00	3	250.00	3	289.00	2	334.00	2	1320.00	5
1974	93.00	6	146.00	6	239.00	7	376.00	7	446.00	7	488.00	7	539.00	6	658.00	6	1120.00	7	2200.00	7

## HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## MOUNTAIN FORK NEAR EAGLETOWN, OKLAHOMA

YEAR	1		3		7		15		30		60		90		120		183		ANNUAL	
1967	8340.0	2	7900.0	3	6850.0	3	4460.0	5	4270.0	4	3450.0	4	2540.0	4	2050.0	6	1520.0	6	810.0	7
1968	14900.0	1	12400.0	1	11700.0	1	10100.0	1	7500.0	1	6590.0	1	6030.0	1	5340.0	1	4230.0	1	2310.0	2
1969	4400.0	6	2170.0	8	1130.0	8	719.0	8	648.0	8	591.0	8	579.0	8	564.0	8	508.0	8	359.0	8
1970	3710.0	8	3680.0	6	3520.0	6	3310.0	6	2970.0	6	2920.0	5	2520.0	5	2390.0	3	1800.0	4	1190.0	4
1971	4290.0	7	2890.0	7	2170.0	7	1820.0	7	1540.0	7	1460.0	7	1370.0	7	1280.0	7	1180.0	7	919.0	6
1972	7310.0	5	7000.0	4	6780.0	4	6610.0	3	5330.0	3	3640.0	3	2800.0	3	2380.0	4	1740.0	5	1010.0	5
1973	8200.0	3	8050.0	2	7590.0	2	7000.0	2	6420.0	2	5670.0	2	5020.0	2	4490.0	2	3670.0	2	2470.0	1
1974	7330.0	4	6870.0	5	5610.0	5	5030.0	4	3480.0	5	2880.0	6	2440.0	6	2360.0	5	2190.0	3	1750.0	3

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